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62.67

KENDLE'S

Seeds Plants Bulbs



1839 92 YEARS IN BUSINESS 1931

101-105 HIGH AVE.
Near Ontario St.

CLEVELAND OHIO

I N D E X

Beekeeper's Supplies49-50 Bedding Plants38-39 Bulbs and Roots.....33-36 Dahlias33-34 Gladiolus 35 Water Lilies and Aquatics..... 37 Fertilizers 48 Flower Seeds14-32 Classified List 14 Fruit Trees 44 Small Fruits 43	Garden Implements46-47 Herbs 7-8 Insecticides44-45 Lawn Seeds 1-2 Ornamental Trees 45 Perennials39-40 Pets and Supplies.....51-52 Roses 42 Shrubs41-42 Vegetable Seeds 3-14 Vines 38
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OUR TERMS ARE NET CASH

OUR PRICES—We will adhere as closely as possible to the prices quoted in this Catalogue, but the market value of some seeds is variable. This includes the grass and clover seeds, field seeds and onion sets and these will be quoted upon request.

ORDERS—Please furnish credit references if you do not remit with order.

ADDRESS, Etc.—When ordering, be sure that your NAME, POSTOFFICE, COUNTY and STATE plainly appear in your letter and whether you prefer to have us ship by mail, express or freight, otherwise we will ship cheapest way.

REMITTANCES may be made at our risk, by check, draft, P. O. or express money order, or in sums of \$2.00 or less by registered mail. Unused postage stamps to the amount of \$1.00 will be accepted.

RATES OF POSTAGE

SEEDS BY MAIL—In justice to our many customers who live in this immediate vicinity and are not obliged to consider postage and express charges, we do not include such charges in the prices quoted in our catalogue; the prices given are for goods here in our store. We will continue, however, to mail free all SEEDS in packets and ounces to any amount, any where in the U. S. at catalogue prices. In larger packages, we will mail free in the FIRST, SECOND and THIRD ZONES, all VEGETABLE and FLOWER SEEDS, ROOTS and BULBS to the amount of ONE DOLLAR or over. On lesser amounts, please add 10% to cover postage or at least 7c for the first pound, which is the minimum charge, otherwise we will be obliged to deduct for postage. Beyond the THIRD ZONE please add postage according to the distance. On account of their perishable nature PLANTS should be shipped by express only.

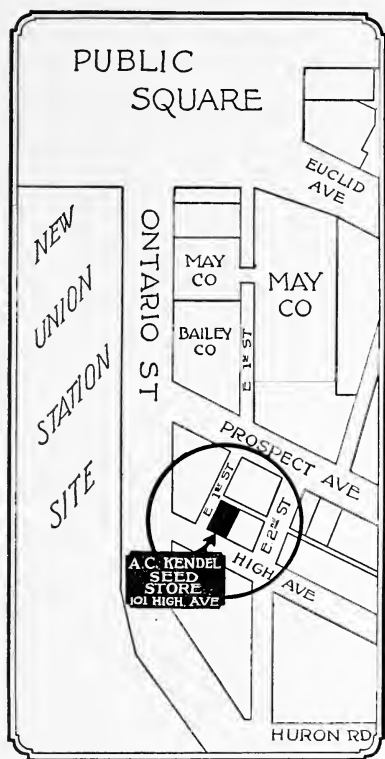
BAGS ARE FURNISHED AT THE FOLLOWING RATES: Pecks, 10c; half-bushels, 20c; one bushel, 30c; two bushel, 50c each. In remitting for orders please add a sum to cover the cost of the necessary bags.

WARRANTS

WARRANTS—We buy our stocks from reliable dealers, some of them for more than sixty years. We make germination tests of each lot of Vegetable Seeds that we offer, thus reducing to a minimum the chances for failure. Our Flower Seeds are always of the new crop and thus of the highest vitality. But we wish to make it clearly understood that because circumstances may arise after seeds are planted, over which we have absolutely no control, we find it necessary as is customary in the Seed Trade to give no Warranty, express or implied, as to description, quality, purity, productiveness, or any other matter of any Seeds, Plants or Bulbs we send out, and will not be responsible in any way, for the crop. If the purchaser does not accept the goods on these terms, they are to be returned at once.

A. C. KENDEL'S SEED STORE.

REMEMBER TO ADD POSTAGE



The above map depicts our location. High Avenue is but one short block south on Ontario towards the Old Market from the Richman and Bailey corner at Prospect. We are one door from Ontario St.



C. E. KENDEL
Proprietor

FOREWORD

IT is increasingly evident that the interest in gardening is rapidly growing all over the country, and with it a desire to know more about what to plant and how and when. Our CATALOGUE is designed to meet this desire in this locality and the information it contains is the condensed experience of our ninety-two years in business. We have never deviated from our founders' policy to handle nothing but the very best in SEEDS, PLANTS, BULBS, etc., to the last item that makes up the extensive stock of a regular, high class SEED STORE. There can be no better.

Please note the considerable reduction in prices to encourage more extensive planting in order to stretch the family purse.

NEW SEEDS OF MERIT

ANNUALS

Calendula, Radio. Petals are curled and twisted like the Comet Asters; flowers of medium size; color orange yellow.....	\$.25
Calendula, Sensation. Large, double, flat flowers; dark orange red.....	.25
Centaurea Depressa, The Queen. A large flowering Bachelor's Button, all blue. A companion to King of Blue Bottles, which has a red center. Per packet.....	.15
Fountain Plant. An Amaranthus, like Joseph's Coat but with leaves cut and beruffled; very noticeable and ornamental.....	.10
Lantana, Hybrid Mixed. Verbena-like flowers in shades of white, red and yellow. An old fashioned flower almost forgotten.....	.10
Pansy, Roggli's New Giants. The very choicest, rich, velvety flowers running to dark shades .....	.50
Statice, Russian or Rat-tail. Flowers rose color; 1 ft.....	.15
Verbena Venosa. Dwarf, for rock-gardens and edging; color, deep lilac.....	.10

PERENNIALS

Gaillardia Grandiflora, Burgundy. At last a scarlet perennial that may be used for cutting. Shining wine-red flowers, 2½ inches across, in all ways like the regular Blanket Flower except there is no yellow on the petals. Comes 60% true from seed and will bloom the first year if started early. In sealed packets direct from the originator .....	.50
Centaurea Macrocephala. Giant yellow flowers on 3 foot stalks; like Sweet Sultan but much larger.....	.10
Leopard's Bane (Doronicum Caucasicum). Yellow, daisy-like flowers, 2 inches across on stems, 18 inches high, that bloom during May and June. Grow in partial shade .....	.50
Foxglove, the Shirley Hybrids. Tall flowering, with two to three foot stems of flowers ranging from white to rose and dotted with crimson or chocolate spots.....	.25
Greek Mallow (Sidalcea, Rosy Gem). Native plant suitable for the sunny herbaceous border, growing two to three feet high with spikes of rosy pink flowers in June and July .....	.25
King's Spear (Asphodelus Lutea). Tall spikes of golden yellow flowers in June.....	.15

SUPPLEMENTAL LIST. REGULAR LIST BEGINNING PAGE 15

NO.	PKT.	NO.	PKT.
440. Sunshine Asters. Anemone flowered. Mixed	\$.15	445. Gysophila Repens. (Dwarf Baby's Breath). Trailing plant with white or pink flowers .....	.15
441. Statice Sinuata. Blue, white, purple yellow or mixed. Each.....	.10	446. Saponaria (Soap Wort). Trailing plant with pink flowers in summer.....	.10
442. Zinnia, Lilliput. Crimson, orange, yellow or mixed. Each.....	.10	447. Silene Schafta. Dwarf upright plant with bright pink flowers.....	.15
443. Cerastium (Snow in Summer.) Trailing plant with silvery leaves and white flowers .....	.15	448. Veronica (Speedwell). Dwarf, navy-blue variety for rockeries.....	.25
444. Corydalis (Fumitory). Dwarf plants: yellow flowers for rockeries.....	.25		

LAWN GRASS SEED

WE have for many years given particular attention to lawn grasses that would make a thick sod, withstanding the heat of summer and the cold of winter under the many varying conditions of soil, shade, and location and feel free to say that it takes several different kinds to meet all conditions and no one kind or even mixture will be suitable everywhere. We have four different mixtures as enumerated below, that will pretty well meet the needs of everyone in this part of the country. Shadilawn should be sown very early in the spring, before the leaves on the trees cast much shade; all our



other mixtures may be sown either spring or fall. The most important part of lawn-making is to use plenty of good seed, suitable for the purpose. You will get some kind of a lawn with good seed even if the soil is poor or the conditions bad but with poor seed, never, no matter what else you do. It takes experts to tell the difference before the seed is sown but

not when it comes up. Barnyard manure is not suitable to use on a lawn on account of the weeds that are sure to follow. Top soil that is not infested with Crab Grass or Chick Weed is hard to find and expensive to use. The safest way is to rake in a liberal amount of Sheep Manure and Bone Meal, half and half, as much as a pound of each per square yard and each spring, when the grass is showing green put on more bone meal at the rate of a pound to 5 x 10 feet and you will not only settle the weed trouble but have that nice, thick sod that everyone desires and so few have. On sandy soil a dressing of Peat Moss on top of the seed will greatly increase the catch and conserve the moisture as well as the fertilizer, without choking out any of the lawn.

There is a great diversity of opinion in regard to watering. Frequent watering tends to encourage the grass roots to stay near the surface. They should grow down, the deeper the better. Therefore the less watering is done the less is necessary and then when a drought comes a good soaking will be more effective. Set the mower so the grass will be left longer in July and August as a protection from the heat and clip as short as you like the rest of the time. To leave or not to leave the mowings on the lawn is another controversial question. It seems logical to advise the use of the grass catcher if there are any weeds because some of our worst weeds, notably Crab Grass which turns the lawn so brown in August, are annuals that could be controlled if the seed was gathered. Dandelion heads should certainly be gathered. From September on, the cuttings might be left as a winter protection, but raked out as early as possible in the spring.



LAWN GRASS SEED

This is our well known and increasingly popular mixture of Grass Seeds that will actually make a lawn, no matter how shady nor what makes the shade. Sown early, before the leaves on the trees get started, it will come up promptly and stay all summer. Under Maples and Elms, it is well to put on a light sowing of fertilizer three or four times during the season and a good soaking, when necessary, due to the demands of the tree roots, which usually fill the ground and will cause any grasses to succumb, but in most shady places, **SHADILAWN** will survive better than any other. 1 lb. 70c; 3 lbs. \$2.00; 5 lbs. \$3.25; 10 lbs. \$6.25; 20 lbs. \$12.00; 100 lbs. \$57.50.



LAWN GRASS SEED

This is the same mixture of grasses that we have sold for fifty years with utmost satisfaction. Nothing but the highest grades and cleanest seeds are used. A pound sows 10 x 20 feet of bare ground. Price: 1 lb. 60c; 3 lbs. \$1.70; 5 lbs. \$2.75; 10 lbs. \$5.25; 20 lbs. \$10.00; 25 lbs. and over 47½c per lb.

CREEPING BENT MIXTURE. In some localities a tough grass is required that will withstand rough treatment. On Putting Greens it has been found that the Bent Grasses best meet the conditions. This mixture has a liberal proportion of Bent Grass seed and will give that fine tough sod so much desired. A pound sows 15 x 20 feet. Price: 1 lb. 90c; 3 lbs. \$2.50; 5 lbs. \$4.00; 10 lbs. \$7.75; 20 lbs. \$15.00.

"Do Well" Lawn Seed. A mixture of lower priced grass seeds, equally clean but intended for back yards, or for temporary uses. 1 lb. 50c; 3 lbs. \$1.45; 5 lbs. \$2.25; 10 lbs. \$4.25; 20 lbs. \$8.00.

GRASS SEEDS

We carry a full supply of bulk grass seeds, Kentucky Blue and Canadian Blue, Fancy Red Top, White Dutch Clover, Bent Grasses, Fescue Grasses, Timothy, Poa Trivialis—all of the highest grades, thoroughly cleaned and all showing their purity and germination. Prices on application.

Vegetable Seeds

In ordering seeds to be sent by mail, please read what we say under
"SEEDS BY MAIL" on the inside front cover page.

ASPARAGUS

Asparagus seed is much sown to supply foliage for cut flowers, but for the vegetable, two year old roots are used, which are ready in March.

An ounce of seed will make about 200 plants.

	Pkt.	Oz.	¼ lb.	Lb.
MARY WASHINGTON. This variety is superseding all other sorts	\$.10	\$.20	\$.50	\$ 1.50

BEANS—Dwarf or Bush—(*Bush Bohnen*)

Beans need more space than is usually believed—at least two inches apart in the rows. Being tender, none should be planted before middle of May, but successive plantings may be made until beginning of August. Unless the garden, through long use is well supplied with the proper legume bacteria, a 35c Composite bottle will inoculate all the Beans, Peas and Sweet Peas you will probably sow and will many times repay the trouble in larger yields. Bean Rust disease is aggravated if beans are cultivated when wet.

One pound will plant 50 feet of row.

GREEN PODDED SORTS

	Pkt.	½ lb.	Lb.	5 lbs.
Burpee's Stringless Green Pod. Round—thick; the earliest in our list and enormously productive.....	\$.10	\$.25	\$.45	\$ 2.00
BOUNTIFUL. Flat; long, early, stringless.....	.10	.25	.45	2.00
Full Measure. Round; stringless, prolific.....	.10	.25	.45	2.00

YELLOW OR WAX PODDED SORTS

WARDWELL'S KIDNEY WAX. Flat; most popular sort in this locality .....	.10	.25	.45	2.00
Improved Golden Wax. Round; good yielder. ....	.10	.25	.45	2.00
Sure Crop Stringless. Thick—flat; seed dark .....	.10	.25	.45	2.00
Pencil Podded Black Wax. Round; brittle and stringless; seed dark .....	.10	.25	.45	2.00

BEANS—Field or Shell

	Pkt.	½ lb.	Lb.	5 lbs.	10 lbs.
Large White Cranberry or Marrow Bean. Used as an early shell bean.....	\$.10	\$.20	\$.35	\$ 1.50	\$ 2.50
White Pea or Navy. The most popular baking bean...	.10	.20	.35	1.50	2.50

BEANS—Bush—Lima

Limas can not be planted as early as other beans, but time may be gained by opening a three inch trench the day before planting, so the sun will warm the ground enough, and sticking the seeds eye down, eight to eighteen inches apart according to the fertility of the soil and just deep enough to be in sight. As they sprout, fill up the trench. Cracked or broken seeds will not grow. When the bushes are well set with pods put a tablespoonful of fertilizer, high in phosphoric acid, around each plant which will greatly increase the yield.

	Pkt.	½ lb.	Lb.	5 lbs.
Henderson's Bush Lima. An excellent bush form.....	\$.10	\$.25	\$.45	\$ 2.00
FORDHOOK BUSH. Large thick beans of the best quality....	.15	.30	.50	2.25
Burpee's Improved Bush Lima.....	.15	.30	.50	2.25

BEANS—Pole or Running

	Pkt.	½ lb.	Lb.	5 lbs.
Kentucky Wonder. (Old Homestead.) One of the very best green-podded beans	\$.10	\$.25	\$.40	\$ 1.60
Kentucky Wonder Wax. This yellow podded sort is of similar habit to the above.....	.10	.25	.45	2.00
Scarlet Runner. Flowers bright scarlet, pods green.....	.10	.30	.50	2.25

BEANS—Pole Lima

	Pkt.	½ lb.	Lb.	5 lbs.
Early Leviathan. Extremely productive.....	\$.10	\$.25	\$.45	\$ 2.00
King of the Garden. Uniformly large beans of excellent quality. ....	.10	.25	.45	2.00

BEET—(*Rothe Ruebe*)

Sow in rows twelve to fifteen inches apart, one inch deep and thin as they grow until they stand two or three inches apart. The greens are very palatable. Unless the earth is firmly packed after the seeds are sown, the stand will be poor.

One ounce will sow 50 feet of row.

	Pkt.	Oz.	¼ lb.	Lb.
EARLY WONDER. The earliest in our list. Globe shaped; deep red; matures uniformly. Good for later sowings.....	\$.10	\$.15	\$.40	\$ 1.25
Crosby's Early Egyptian. Extra early, dark red.....	.10	.15	.40	1.25
Detroit Dark Red Turnip. Best late sort.....	.10	.15	.40	1.25
Early Blood Turnip. (Edmand's.) The best beet for general crop .....	.10	.15	.40	1.25

BEETS (Continued) VARIETIES GROWN FOR FEEDING STOCK

	Pkt.	Oz.	¼ lb.	Lb.
White Silesian Sugar. Very sweet and keeps well.....	\$.10	\$.15	\$.20	\$.65
Giant Half Sugar Rose. A large variety adapted especially to heavy soil .....	.10	.15	.20	.60
Norbiton Giant Mangel Wurzel. A long red variety of great size .....	.10	.15	.20	.60

SWISS CHARD

Used wholly as greens. Sow the same as beet and thin to one foot apart, using as beet greens. As the remaining plants grow, break off the lower leaves as wanted until frost. Chickens are very fond of Chard.

	Pkt.	Oz.	¼ lb.	Lb.
Smooth Leaf Yellow. Stems make a good substitute for asparagus	\$.10	\$.15	\$.40	\$ 1.25

BORAGE. See under *Herbs*

BROCCOLI—(*Rosen Kohl*)

Very much like Cauliflower but more easily grown. May be sown early in the hot-bed and set out middle of May, or sown outside in June for fall.

	Pkt.	Oz.	¼ lb.	Lb.
Early Green Italian or Calabrese. The variety best suited to our region	\$.25	\$ 1.00	\$ 3.50	....

BRUSSELS SPROUTS—(*Sprossen Kohl*)

A variety of the cabbage family producing a great number of small cabbages an inch or two in diameter along the stem until severe frost. Cut off part of the stem of the lower leaves to give the Sprouts room to develop.

	Pkt.	Oz.	¼ lb.	Lb.
Improved Half Dwarf or Paris Market. Best adapted for this region	\$.10	\$.35	\$ 1.00	\$ 3.00

CABBAGE—(*Kopf Kohl*)

Aside from selecting cabbage seed of known origin and suitable for this locality the essential thing is to have the land free from the so-called Club Root disease. Cabbage should not follow a crop of Cauliflower, Turnip or Cabbage and the leaves of none of these should be allowed to get back on the land, otherwise cabbage plants will form large, worthless roots and no head. For a few heads in the garden, plants are ready in May.

Sow one ounce for 3000 plants.

	Pkt.	Oz.	¼ lb.	Lb.
Golden Acre. A new extra early round headed cabbage somewhat smaller but a week earlier than Copenhagen Market..	\$.10	\$.70	\$ 1.75	\$ 6.00
Copenhagen Market. Heads are very solid, a most desirable kind for small gardens.....	.10	.50	1.50	4.00
True Early Wakefield. Very early pointed head variety of medium size .....	.10	.30	1.00	3.00
Holland or Danish Ball Head. One of the best keeping sorts for winter .....	.10	.40	1.40	4.50
Late Premium Flat Dutch. A standard variety; very large heads; used for kraut.....	.10	.30	1.00	3.00
Perfection Drumhead Savoy. Finely curled; keeps well; best for boiling .....	.10	.40	1.25	3.75
Mammoth Rock Red. The head is large, round and solid.....	.10	.40	1.25	4.00
Chinese or Celery Cabbage, Pe Tsai. Can be served as a salad or cooked like cabbage.....	.10	.40	1.00	3.00

CARROT—(*Gelbe Ruebe, Mohruebe*)

Sow thinly, a half inch deep, thinning as they grow, leaving one plant every two or three inches. Rich soil is essential but fresh manure should be used the year before, so the carrots do not fork.

One ounce will sow 150 feet of row.

	Pkt.	Oz.	¼ lb.	Lb.
CHANTENAY or HALF LONG SCARLET STUMP ROOTED. The standard sort for general purposes, early or late.....	\$.10	\$.15	\$.35	\$ 1.00
Early Scarlet Horn. Half-long, stump-rooted.....	.10	.15	.35	1.25
Danver's Half-Long. A good keeper. Very productive.....	.10	.15	.35	1.00

VARIETIES GROWN FOR FEEDING STOCK

	Pkt.	Oz.	¼ lb.	Lb.
Improved Long Orange. Medium long.....	\$.10	\$.15	\$.35	1.00
Large Orange Belgian. Is very large and good quality.....	.10	.15	.35	1.00
Large White Belgian. Exclusively grown for stock; it is an immense cropper .....	.10	.15	.35	1.00

CAULIFLOWER—(*Blumenkohl*)

The weather has more to do with success in raising Cauliflower than almost any other vegetable. If it is cool, good heads may be expected, if not, the crop will be more or less of a failure, anything but the very best seed however, invites failure from the very outset. Because the price of seed runs into large figures is a very poor reason for trying to save a dollar on the seed. The crop is what you want and no poor seed will ever produce a good crop of anything except trouble and disappointment.

One ounce will produce 3000 plants.

Plants ready in May

	Pkt.	¼ Oz.	½ Oz.	Oz.
Danish Giant—Dry Weather. It is a valuable variety for growing in sections having long dry seasons.....	\$.25	\$1.00	\$1.75	\$3.00
Extra Early Dwarf Erfurt. Very white, compact heads.....	.25	.75	1.25	2.50
Early Snowball. Dwarf and compact; very reliable for heading.	.25	.75	1.25	2.50

CELERY—(*Sellerie*)

One important factor in raising celery from seed is to have the seed bed fine and the seed firmly packed down when it is sown, a half inch deep. Next it is necessary to keep it growing—a check in growth is sure to be followed by hollow celery. In the garden, plants which are ready in June, may be set out four inches apart between alternate rows of early corn, affording necessary shade at the start. After the corn is pulled the stalks should be removed to let the celery grow. Plant only the best plants.

	Pkt.	Oz.	¼ lb.	Lb.
Golden Plume. A new very early variety of the Golden Self Blanching type; matures very early; brittle and handsome..	\$.10	\$1.50	\$4.50	\$12.00
Golden Self-Blanching. French grown; tall strain; most commonly used; early sort.....	.10	1.25	3.75	12.00
Large-Stalked, Golden Self-Blanching. Proven Stock. This seed we know to be pure and solid, and our growers need fear no failure on account of hollow celery.....	.10	1.80	6.00	18.00
Giant Pascal. Best quality for fall and winter use; crisp and of an excellent flavor.....	.10	.40	1.00	3.50
Giant Pascal Proven Stock. We have a little of the old seed that is of known purity. Date of crop on each package....	.10	.45	1.25	4.00
Celery Seed for Flavoring. Used in flavoring pickles, soup, etc., ....		.10	....	.60

CELERIAC—or Turnip Rooted Celery

	Pkt.	Oz.	¼ lb.	Lb.
Large Smooth Prague. Very popular.....	\$.10	\$.35	\$1.00	\$3.00

CHERVIL—(*Kerbel*)—See under *Herbs*

CHICORY—(*Chicorien*)

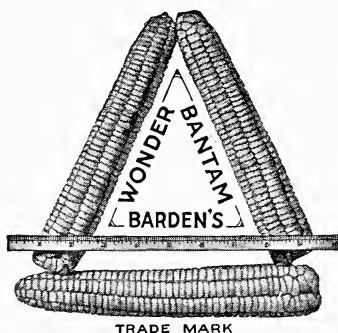
The roots are dried and ground up to be either mixed with coffee or used as a substitute. Cultivated the same as carrots.

	Pkt.	Oz.	¼ lb.	Lb.
Large Rooted. The variety most generally used.....	\$.10	\$.25	\$.75	\$2.25
Witloof. See under Endive.				

COLLARDS

Belongs to the cabbage family but does not head, growing a tall leafy stalk, the leaves being cooked as greens.

	Pkt.	Oz.	¼ lb.	Lb.
Georgia. The sort usually used largely in the south.....	\$.10	\$.15	\$.40	\$1.00



CORN—(*Zucker Mais*)

Plant in rows and thin out inferior stalks, leaving a strong stalk each foot or fifteen inches. Rows may be thirty inches apart for early dwarf and forty-eight inches for late tall sorts. Plant a half inch

CORN (Continued)

deep at first and deeper as the ground warms up, but three inches is the limit. The suckers should be twisted off when they get six or eight inches high and the stalks hilled up when a foot high. Shallow cultivating is important because the corn roots are near the surface. Two plantings may be made but if more are wanted, it is safer to plant later sorts early. May 10th is, on an average, the earliest safe date to plant corn, but a few plants can be started in small pots earlier and planted out after danger from frost has passed.

One pound will plant 100 feet of row or 100 hills.

	Pkt.	½ lb.	Lb.	5 lbs.	10 lbs.
KENDEL'S EARLY GIANT. Our own introduction of 1897 and still the largest eared, white grained Sweet Corn on the market and planted everywhere in the corn belt. It is sweet and tender and commands top prices because of its size. Roasting ears are ready in 60 days on sand.....	\$.10	\$.20	\$.35	\$ 1.40	\$ 2.50
BARDEN'S WONDER BANTAM. This is a longer eared Golden Bantam and grows on a taller stalk. It has lost none of the sugary sweetness that has made the latter so popular and the ears are two or three inches longer and only three or four days later .....	.10	.20	.40	1.50	2.75
Burpee's Golden Bantam. Our stock is Ohio grown and thus suitable for this region.....	.10	.20	.35	1.40	2.50
Henderson's Golden Rod. This is practically a late Golden Bantam being a cross with Stowell's Evergreen. Stalks six feet; ears medium large and often two on a stalk.....	.10	.20	.35	1.40	2.50
White Cob Cory. The earliest genuine sweet corn. Quite acceptable on the table until the later, sweeter sorts appear .....	.10	.20	.35	1.40	2.50
Howling Mob. The description of Early Giant would fit this variety and it has become popular among the market gardeners in the east. Our stock is Ohio grown and dependable.....	.10	.20	.35	1.40	2.50
Black Mexican. Old timers appreciate this wonderfully sweet corn. Many people think that because the kernels are blue they are poisonous and miss a real treat. Stalks are short, permitting close planting; medium early.....	.10	.20	.35	1.40	2.50
Country Gentlemen. Also called Shoe Peg. A late sort, very sweet; kernels deep and thin and grow irregularly on the cob.....	.10	.20	.35	1.40	2.50
Stowell's Evergreen. The standard late sort. Large ears; deep grains; fairly sweet; largely used for canning and drying.....	.10	.20	.35	1.40	2.50

CORN SALAD—(*Acker Salat*)

Sown and handled the same as lettuce and used in the same way.

	Pkt.	Oz.	¼ lb.	Lb.
Broad Leaved. The kind generally sown.....	\$.10	\$.20	\$.75	\$ 2.00

CRESS—(*Kresse*)

Both kinds of cress are used for salads, more often to lend flavor.

	Pkt.	Oz.	¼ lb.	Lb.
Peppergrass. Easily grown in a short time in the garden.....	\$.10	\$.15	\$.30	\$ 1.00
True Water Cress. Grows along running streams and in early hot beds or the green house.....	.10	.50	1.50	5.00

CUCUMBER—(*Gurke*)

The chief difficulty with raising cucumbers is the striped beetle and these may be conquered by early planting in sods or berry boxes end of April, to be set out beginning of June and then dusting the vines with Slug Shot after every rain. Plant out doors end of June for pickles.

	Pkt.	Oz.	¼ lb.	Lb.
IMPROVED WHITE SPINED. This variety has taken the lead for many years, not only as a cucumber but for thin pickles. \$.10	\$.10	\$.20	\$.50	\$ 1.50
Davis Perfect. A dark green sort, tender and fine quality.....	.10	.20	.50	1.50
Improved Long Green. Late variety, flavor excellent.....	.10	.20	.50	1.50
Boston Pickling. Popular variety for pickles, bright green, short and symmetrical.....	.10	.20	.50	1.50
Chicago Pickling. End-tapering fruit of deep green color.....	.10	.20	.40	1.00

DANDELION—(*Pardeblum*)

Although great quantities of wild dandelion greens are gathered every spring, few people know that the cultivated varieties have much larger leaves and are not as bitter.

	Pkt.	Oz.	¼ lb.	Lb.
Improved Thick Leaved. The kind usually sown.....	\$.10	\$1.00	....	....

EGG PLANT—(*Eier Pflanze*)

Potato bugs are just as bad on Egg Plants as they are on potatoes, so be ready with Arsenate of Lead or Slug Shot when they appear. The seed will not grow well under about 80 deg. temperature, so get potted plants end of May, if you want only a few and set them out two feet apart.

	Pkt.	Oz.	¼ lb.	Lb.
Black Beauty. An extremely early variety.....	\$.10	\$.50	\$1.50	....
Early Long Purple. Rich dark color.....	.10	.50	1.50	....
New York Improved Purple. The best for general culture.....	.10	.50	1.50	....

ENDIVE—(*Endivien*)—Escarolle

The slightly bitter taste of this excellent salad plant is an agreeable change from lettuce and is at its best when lettuce is past its prime. Endive is handled much like lettuce, taking longer to grow, but requires blanching, which is done when the plants are large enough, by gathering the outside leaves together and tying them with raffia, not at the ends but about half way up, a few at a time, allowing three weeks to blanch, when they must be used or they will decay. As frost comes the plants can be lifted, soil and all and stored in baskets in a cool place where they will keep for a month.

	Pkt.	Oz.	¼ lb.	Lb.
White Curled. Light green, almost white.....	\$.10	\$.20	\$.50	\$1.50
Green Curled. Nicely curled, dark green.....	.10	.20	.50	1.50
Green Broad Leaf Batavian. Leaves broad and smooth.....	.10	.20	.50	1.50
White Broad Leaf Batavian. Bleaches very easily.....	.10	.20	.50	1.50
French Endive (Witloof Chicory). This variety is grown from seed sown in May for the roots which are planted in the ground under the green house benches late in the fall after the leaves have been largely removed. They are planted close together and covered with soil or preferably saw dust to a depth of six or eight inches. In mid-winter the roots start to grow and the fresh, white sprout is the delicious salad plant shipped from Europe in great quantities during the winter				
	.10	.20	.60	2.00

HERBS—Sweet, Pot and Medical

A small space in the garden may be used to good advantage for the cultivation of a few of the most useful and desirable herbs. Their cultivation is very simple, but little care being needed beyond keeping down the weeds. Sow in April or May in drills twelve to fifteen inches apart, and thin out the young plants where they stand too thick.

	PKT.	OZ.
ANISE. (<i>Pimpinella anisum</i>.) An annual herb cultivated principally for its seeds which have a fragrant, agreeable smell and a pleasant taste; used medicinally for aromatic cordials, colic and nausea. The leaves are sometimes used for garnishing and flavoring.....	\$.10	\$.25
ANISE, for flavoring.....	LB.	.50
BASIL, SWEET. (<i>Ocimum basilicum</i>.) A hardy, aromatic annual.....	.10	.25
BORAGE. (<i>Borago officinalis</i>.) A hardy annual used as a pot herb and for bee pasture .....	.10	.25
BURNET, Garden Perennial.....	.10	.25
CARAWAY. (<i>Carum carui</i>.) A well known herb, cultivated for its seeds, which are used in confectionery, cakes, etc. The plants never seed till the second year .....	.10	.25
CHERVIL. (Curled.) Used like Parsley.....	.10	.30
CORIANDER. (<i>Coriandrum sativum</i>.) A hardy annual cultivated for its seed which has an agreeable taste and is used in confectionery and to disguise the taste of medicine.....	.10	.25
CORIANDER. For flavoring	LB.	.40
DILL. (<i>Anethum graveolens</i>.) An annual of aromatic odor and warm pungent taste. Its seeds are used for seasoning. It possesses medicinal properties but its largest use is for making Dill pickles. Plant branching, two to three feet high; leaves very much cut into thread-like segments; flowers small, yellowish, borne in umbels. Seed flat.....	.10	.20
DILL. For flavoring	LB.	.50
FENNEL, SWEET. (<i>Foeniculum officinale</i>.) A hardy perennial.....	.10	.20
FENNEL. For flavoring	LB.	.40
HOREHOUND. (<i>Marrubium vulgare</i>.) A perennial herb with an aromatic odor .....	.10	.25
HYSSOP. (<i>Hysopus officinalis</i>.) A hardy perennial with an aromatic odor..	.10	.50
LAVENDER. (<i>Lavendula vere</i>.) A hardy perennial, growing about two feet high. It is used for the distillation of lavender water or dried and used to perfume linen .....	.10	.75

HERBS (Continued)

MARJORAM, SWEET. (<i>Origanum marjorana</i> .) An aromatic herb for seasoning .....	.10	.40
ROSEMARY. (<i>Rosmarinus officinalis</i> .) A hardy perennial, with fragrant odor and a warm bitter taste. The leaves are used for flavoring meats and soups, and for medicinal drinks. ....	.10	.50
SAFFRON. (<i>Carthamus tinctorius</i> .) A hardy annual. Cultivated for its flowers which are used principally for coloring, sometimes for flavoring and to make the cosmetic powder called rouge. The flowers should be picked while in full bloom. ....	.10	.40
SAGE. (<i>Salvia officinalis</i> .) One of the most extensively used herbs for seasoning. It is also believed to possess medicinal properties. Hardy perennial, about fifteen to eighteen inches high. Plant very branching; flowers usually blue, sometimes pink or white; leaves grayish green, oval, wrinkled. Cut the leaves and tender shoots just as the plant is coming into flower and dry quickly in the shade. The plants will survive the winter and may be divided. If this is done they will give a second crop superior in quality. ....	.10	.25
SAVORY, SUMMER. (<i>Satureia hortensis</i> .) A hardy aromatic annual twelve to fifteen inches high, the dried stems, leaves and flowers of which are extensively used for seasoning, especially in dressings and soups. ....	.10	.40
SORREL. (<i>Large leaved.</i>) Perennial .....	.10	.20
TANSY. (<i>For bitters.</i>) Perennial .....	.10	.40
THYME. (<i>Thymus vulgaris</i> .) An aromatic perennial herb, eight to ten inches high, used principally for seasoning. Plant very branching with wiry foliage and small lilac flowers. Sometimes the leaves are used to make a tea for the purpose of relieving nervous headache. Sow as early as the ground will permit .....	.10	.60
WOODRUFF, SWEET .....	.10	.90
WORMWOOD. (<i>Artemisia absinthium</i> .) A perennial plant of fragrant and spicy odor .....	.10	.40

KALE—(*Krausskohl, Blaetterkohl*)

Seed is started in May and the plants are set out in June a foot apart and handled like cabbage. After a light frost the leaves are cooked and served much like spinach.
One ounce will make 5000 plants.

	Pkt.	Oz.	¼ lb.	Lb.
Dwarf Curled Scotch. For fall and early winter use, sow the seed in spring. For late winter and early spring use sow in September	\$.10	\$.15	\$.40	\$1.25
Tall Curled Scotch. A sort growing about two feet tall. ....	.10	.15	.40	1.25

KOHLRABI—(*Kohlrabi*)

This is practically a turnip growing above ground. Sown early and thinly the bulbs are edible from the time they are two inches in diameter. By thinning and using, those that remain keep growing larger but they will finally get woody and worthless. It is not commonly known that the raw vegetable tastes like a mild radish.

	Pkt.	Oz.	¼ lb.	Lb.
Early White Vienna. Most generally used.	\$.10	\$.25	\$.75	\$2.50
Early Purple Vienna. Identical, except in color. ....	.10	.25	.75	2.50

LETTUCE—(*Lattich Salat*)

While lettuce may be had at the grocer's the year around, the garden still produces better than can be bought and its care and culture are so simple that the children can run that part of the garden. The worst pest is the Root Aphid and this is easily controlled with a sowing of Tobacco Dust in the furrow under the seed. An occasional watering with Nitrate of Soda will greatly aid lettuce to large size. Loose leaf sorts may be gathered when large enough—heading kinds should be transplanted or thinned to six inches apart and the less these are watered the better, to prevent rotting in the heart. Certain kinds are intended for inside; outdoors these are apt to be tough and bitter.

	Pkt.	Oz.	¼ lb.	Lb.
GRAND RAPIDS. A leaf lettuce best suited for hot-beds or green house	\$.10	\$.20	\$.60	\$2.00
Black Seeded Simpson. A curly leafed sort sown both outdoors and inside .....	.10	.20	.60	2.00
Big Boston. A fine, large heading sort both for forcing and outside; leaves red edged. ....	.10	.20	.50	1.50
NEW HANSON. The best loose-leaf sort for home use outside. Usable from the time it is large enough and slow to run to seed. ....	.10	.20	.50	1.50
May King. The earliest heading sort for forcing. ....	.10	.20	.60	2.00
ICEBERG. (<i>New York.</i>) The best large heading sort for outside .....	.10	.30	1.00	3.00
Trion Self-Closing Cos. A late heading sort, growing tall and with spoon-shaped leaves. Best variety of this type. ....	.10	.20	.60	2.00
Mignonette. (<i>Brown Dutch.</i>) A late heading sort that will withstand the cold longest. ....	.10	.20	.60	2.00

LEEK—(*Lauch*)

Much like an onion in flavor but has no bulb. Used mostly in soups.

	Pkt.	Oz.	¼ lb.	Lb.
American Flag. A long-growing variety; easily blanched.....	\$.10	\$.25	\$.75	\$2.50
Large Rouen. A short, heavy sort.....	.10	.25	.75	2.50

WATER MELON—(*Wasser Melone*)

Plant six or eight seeds in hills eight feet apart in which a peck of well rooted manure or compost has been spaded in and when they are beginning to vine leave three plants to a hill. Keep Slug Shot handy, for the bugs. Only early kinds will get ripe here, so our list is not long.

One ounce is needed for 20 hills.

	Pkt.	Oz.	¼ lb.	Lb.
Ice Cream. Ferry's Peerless. Medium size; oblong; very sweet .....	.10	\$.15	\$.40	\$1.00
Kleckley's Sweets. Large size, oblong, early, finest flavor and quality .....	.10	.15	.40	1.00
Mountain Sweet. Very solid and crisp, early.....	.10	.15	.40	1.00
Sweet Heart. Large, very tender and sweet.....	.10	.15	.40	1.00
Tom Watson. Dark red flesh of splendid flavor. A little later than the other sorts.....	.10	.15	.40	1.00

MUSKMELON—(*Zucker Melone*)

Cultivated the same as Watermelons but the hills may be six feet apart. The flavor will be spoiled if cucumbers are grown near by.

	Pkt.	Oz.	¼ lb.	Lb.
Extra Early Nutmeg. Small but so early that it is sure to ripen .....	.10	\$.20	\$.60	\$2.00
Emerald Gem. Very early; salmon flesh; dark green skin.....	.10	.20	.50	1.75
Extra Early Hackensack. Round; good size; green flesh.....	.10	.20	.50	1.75
Rocky Ford. Medium early; oval; sweet; ships well.....	.10	.20	.50	1.75
Bender's Surprise. Oval shaped; salmon flesh which is very thick; large size and fine flavor, netted skin.....	.10	.20	.50	1.75
Honey Ball. Green flesh; round and slightly netted; light green skin; medium early. Fine new variety.....	.10	.20	.60	2.00
Osage. Salmon flesh; oval; dark green skin; high flavor.....	.10	.20	.50	1.75
Paul Rose. Orange yellow flesh; oval; fine flavor; best in heavy soil .....	.10	.20	.50	1.75

MUSTARD—(*Senf*)

The green leaves are used as a salad or boiled like spinach. Sow a half inch deep in rows eighteen inches apart, every few weeks in the summer if a continuous supply is wanted. The seeds of both kinds listed are largely used in pickles and the white is the mustard of commerce.

	Pkt.	Oz.	¼ lb.	Lb.
White English. The kind commonly used for sowing.....	\$.10	\$.15	\$.30	\$.75
Brown. Sown with garden Cress for green salad.....	.10	.15	.30	.75

MUSHROOM—(*Erdschwamm*)

The chief essential in raising Mushrooms indoors is a controlled temperature. The ideal temperature is 65 deg. Fahr, but it should not vary more than 5 degrees to attain the greatest success. A pamphlet dealing at length with the growing of Mushrooms will be furnished with an order for Spawn, or for 5c in stamps or coin.

Pure Culture Spawn. Direct Bricks. Best brick spawn on the market, per brick 40c, 3 for \$1.00, 10 bricks \$3.25. For larger quantities please write for price.

Lambert Pure Culture Spawn. In quart milk bottles. In this form the spawn is of the highest potency. Per quart, \$1.50, 2 quarts \$2.50, carton of a dozen quarts for \$12.00.

ONION—(*Zwiebel*)

To grow large onions from seed, it is necessary to have light, very rich soil, seed adapted to this climate and patience to keep the weeds out. Sow thinly, one-fourth inch deep in rows a suitable distance apart. Grown from sets, onions need quite as much care but more are used for bunching before they form bulbs and soil need not be so extremely rich; they get large very much sooner also but will not keep as long in storage. In the fall we have the hardy Egyptian Onion sets; in the spring the yellow and white bottom sets. Price on request.

One ounce of seeds for 100 feet. One pound of sets for 50 feet.

	Pkt.	Oz.	¼ lb.	Lb.
Large Red Wethersfield. Large, flat, late variety.....	\$.10	\$.25	\$.75	\$2.25
Southport Red Globe. Medium, round.....	.10	.25	.75	2.50
White Silverskin. Somewhat flat, medium size, mild flavor and largely used for pickling.....	.10	.30	1.00	3.00
Southport White Globe. Deeper through but much like the preceding and much used for pickles.....	.10	.30	1.00	3.50
PRIZETAKER. Nearly globe-shaped; yellowish brown skin; mild flavor. This sort may be sown early in hot-beds and transplanted when warm enough and by fall will make a very large onion, passing for Bermudas.....	.10	.25	1.75	2.50
YELLOW GLOBE DANVERS. Grown in larger quantity than all others combined. Our standard yellow winter onion....	.10	.25	.75	2.50

For onion seed in large quantities, write for special price.

OKRA, or GUMBO—(*Essbarer Hibiscus*)

The young seed pods are cut up, and used for soups and stews. Sow thinly in rows in June and thin to two feet apart each way.

	Pkt.	Oz.	¼ lb.	Lb.
Tall Green. Grows two to three feet high.....	\$.10	\$.15	\$.30	\$1.00
White Velvet. Dwarfier and pods light green. Best sort.....	.10	.15	.30	1.00

PARSLEY—(*Petersilie*)

The chief difficulty with parsley is to get the seed up, which is because it takes five or six weeks to germinate. Sow the seed thinly, about one-fourth inch deep, early in April and cover with a thin board and you will have no trouble. Thin the plants to three inches apart. A few small plants in a pot will grow nicely in the house during the winter.

	Pkt.	Oz.	¼ lb.	Lb.
Plain Leaved. Much used in soups, etc.....	\$.10	\$.20	\$.40	\$1.00
Extra Double Curled. A choice variety, well curled.....	.10	.20	.50	1.50
Hamburg, Large Rooted. The roots are used in winter.....	.10	.20	.50	1.75

PARSNIP—(*Pastinak*)

Being a plant that requires all season to mature, it is essential to sow early in May and get the seed up the first time. A beating rain may harden the ground and prevent the delicate sprouts from coming through, therefore sow a little early radish in the row along with the parsnip, which will break the crust for the latter. Sow a half inch deep and thin to two or three inches apart. Never try to raise parsnips on freshly manured land as they will grow forked roots of little use.

Use one ounce of fresh seed to 200 feet.

	Pkt.	Oz.	¼ lb.	Lb.
GUERNSEY HALF LONG. The best sort to use in this region.	\$.10	\$.15	\$.30	\$1.00

PEAS—(*Erbsen*)

If you have the room, few vegetables taste so good as home grown peas. They should be sown early, the earliest in March, an inch deep at first and as the ground warms up, deeper but not over three inches. Later sowings, say July, are apt to be disappointing, so it is better to sow early, medium and late sorts at the same time, the later sorts making larger pods and seeds. It pays to inoculate the seed with Legume Bacteria, same as beans. If the pods are not well filled, the soil lacks phosphorus, and if the vines do not grow well the soil should be limed before the next season.

A pound will sow 50 feet of row.

	Pkt.	½ lb.	Lb.	5 lbs.
KENDEL'S FIRST OF ALL. For many years the best smooth, extra early sort.....	\$.15	\$.25	\$.40	\$1.60
Little Marvel. The earliest wrinkled sort. Should not be sown until the ground is warm.....	.15	.25	.45	1.75
NOTTS EXCELSIOR. In this locality this has, for many years been the best all round early, wrinkled variety both in quality and yield. The ground must be warm to get a good stand.....	.15	.25	.40	1.60
Gradus. In some localities this large podded sort is extensively used but in others does not fill well. Seeds very large, sweet and tender; an excellent sort where they will yield.....	.15	.25	.45	1.75
PIONEER. A very hardy wrinkled sort suitable for early planting. Pods are large and well filled resembling the Telephone. The peas are large and of splendid quality which they retain for a long period. Vines grow two feet; suitable for successive plantings.....	.15	.25	.45	2.00
Blue Bantam. One of the newer sorts; heavy cropper and good quality.....	.15	.25	.45	2.00
DWARF TELEPHONE. The best late dwarf sort. Large, well filled pods; seeds large, tender and sweet.....	.15	.25	.45	1.75
Tall Telephone. If brush can be had for them to run on, tall peas will greatly out-yield the dwarf sorts. This is the leading tall variety.....	.15	.25	.45	1.75

PEPPER—(*Pfeffer*)

Pepper seed needs a temperature of 80 deg. to sprout so if you need only a few, get the plants from us in latter part of May. Set two feet apart.

An ounce of seed makes 3000 plants.

	Pkt.	¼ oz.	Oz.	¼ lb.
Harris' Early Giant. A new, sweet variety growing 5 inches long and 3½ inches in diameter.....	\$.10	\$.25	\$.65	\$2.25
Chinese Giant. A square, sweet pepper, large and mild. A rather late sort.....	.10	.25	.75	2.25
World Beater. Somewhat thicker at the blossom end; rather early. Grows in clusters.....	.10	.20	.50	1.25
Bull Nose. A large, hot pepper used for pickling.....	.10	.20	.50	1.25
Long Red Cayenne. A slender, very hot pepper, used wholly for pickles. Makes the red pepper of commerce.....	.10	.20	.60	2.00
Pimento. A medium sized, very mild, sweet variety with thick flesh.....	.10	.20	.60	2.00
Red Chili. Very small and very hot.....	.10	.30	1.00	3.00

PUMPKIN—(*Kuerbis*)

A few pumpkins may be grown without much trouble, sufficient room being essential and good soil also.

One ounce makes 30 hills.

	Pkt.	Oz.	¼ lb.	Lb.
Connecticut Field. The common, large field pumpkin.....	.10	\$.15	\$.30	\$.90
Sweet or Sugar. The small, orange yellow pie pumpkin.....	.10	.15	.30	1.00
Cushaw. A crooked neck sort.....	.10	.15	.40	1.25
Mammoth Potiron. The largest; very thick, fine grained, sweet flesh; cream colored skin; flat at the ends.....	.10	.25	.75	2.50

RADISH—(*Rettig*)

What is a garden without a row of Radishes? They are easily and quickly grown and so much better when freshly pulled. The important thing is to have the early radishes grow quickly, so they should not be sown too early outdoors. Tobacco Dust sown in the row with the seed prevents wormy radishes.

One ounce sows 100 feet.

EARLIEST SCARLET GLOBE. The quickest maturing radish..	.10	\$.15	\$.40	\$1.00
Early White Tipped Scarlet Turnip. Attractive appearance....	.10	.15	.40	1.00
French Breakfast. Oval in form; white tipped.....	.10	.15	.40	1.00
WHITE GIANT STUTTGART. The best mid-summer sort...	.10	.15	.40	1.00
White Icicle. The best long white sort.....	.10	.15	.40	1.00
Long Black Spanish. The leading long, winter sort.....	.10	.15	.40	1.00
Round Black Spanish. The leading round winter sort.....	.10	.15	.40	1.00
Scarlet China Winter. A half long sort, thicker at the bottom..	.10	.15	.40	1.00

RHUBARB—(*Rahbarber*)

Rhubarb requires an abundance of rich soil and water to make a good crop. Use a liberal dose of Sheep Manure with a small amount of Nitrate of Soda dug in around the roots very early in the spring. A barrel with both ends out set over a plant will make longer stems and earlier. It takes four years for seed to produce a crop, but roots, which are ready in April, produce the second year.

	Pkt.	Oz.	¼ lb.	Lb.
Victoria. The principal variety in this market.....	.10	\$.25	\$.75	\$2.50

SALSIFY—(*Haferwurzel*)

Commonly called Oyster Plant because it tastes so much like oysters. A winter vegetable but little appreciated by most people, but greatly liked by those who know it. Early Radish seed sown with salsify will assure a good stand as it is important to get it up well the first time so the roots will be large enough. Like parsnips, they may be left in the ground in winter and dug as wanted. If frozen when dug, will thaw out, without injury in icy cold water.

Use one ounce to 50 feet of row.

	Pkt.	Oz.	¼ lb.	Lb.
Mammoth Sandwich Island. For many years the only sort used .....	.10	\$.25	\$.75	\$2.50

SORREL—(*Sauerampfer*)—See under *Herbs*

SPINACH—(*Spinat*)

The ordinary spinach may be sown almost any time that anything can, spring, summer or fall and is ready for use three or four months after sowing. Thin to three inches apart. The New Zealand Summer is planted early, two seeds in a group, the groups two feet apart. Being a runner, the ends are picked to be followed by more as the plant grows. A watering with Nitrate of Soda, increases the yield.

Use one ounce to 100 feet of row.

	Pkt.	Oz.	¼ lb.	Lb.
Viroflay. A large, thick leaved sort for both spring or fall sowing .....	.10	\$.15	\$.20	\$.50
Savoy Leaved, Re-selected. Intending either for very early or for fall sowing. Thick, dark leaves; good keeper.....	.10	.15	.20	.50
PRINCESS JULIANA. Fine long season sort for second early..	.10	.15	.20	.60
NEW ZEALAND SUMMER. Yields continuously, the tips only being used. Profitable in the smallest garden, three or four plants producing a peck each week.....	.10	.15	.30	1.00

Liberal reduction allowed on larger quantities.

SQUASH—(*Speise Kuerbis*)

The chief trouble encountered with squashes is caused by the bugs and borers. A dusting of Slug Shot after each rain will check the bugs but the borers in the stem, which attack the running sorts can be circumvented only by causing the vines to root at three or four of the joints by covering with soil, so that, when the borer gets into the main stem and would kill the vine, the roots at the joints would be sufficient to sustain it and no damage would result. This simple precaution has saved many acres of squash. Plant six or eight seeds in a hill, the early three or four and the late sorts twice as far apart, after middle of May and the ground is warm.

One ounce makes 40 hills of early and ten of late sorts.

	Pkt.	Oz.	¼ lb.	Lb.
EXTRA LARGE GOLDEN BUSH. For many years the leading yellow scallop variety. Large and fine.....	.10	\$.20	\$.60	\$1.75
Giant Summer Crookneck. The most popular yellow sort of this type .....	.10	.20	.60	1.75

SQUASH (Continued)

	Pkt.	Oz.	¼ lb.	Lb.
Boston Marrow. An early winter sort, medium size; orange color skin .....	.10	.20	.50	1.50
HUBBARD. Planted more than any other for winter .....	.10	.20	.60	1.75
Chicago Warted Hubbard. Rougher and much larger than Hubbard .....	.10	.20	.60	1.75
Delicious. Top shaped; medium size; dark green skin; dry and sweet, for winter use .....	.10	.20	.60	1.75
English Vegetable Marrow. Yellow skin; white flesh; water-melon shaped; for summer use. Vines running .....	.10	.20	.60	1.75
Cocozelle or Italian Vegetable Marrow. The bushes produce large, dark green fruits, somewhat mottled and slightly curved. At their best when six or eight inches long .....	.10	.20	.60	1.75

TOMATO—(*Liebesapfel*)

More and more Tomatoes are being recommended for their food value, which remains even after cooking. A few should be in every garden and if grown and tied to plant stakes 30 inches apart may be kept tidy. Start the seeds early or get the plants from us later and set them deep, six inches or more if you can, but clip off all the lower leaves and half the rest when setting them. This and plenty of water at the time will prevent wilting. Should the vines still have green fruits on the approach of frost pull them up and hang them up by the roots in a cool part of the cellar and even the small ones will ripen. A little Nitrate of Potash two or three times during the early growing season is of great benefit.

An ounce will make 3000 plants.

	Pkt.	½ oz.	Oz.	¼ lb.
Bonny Best. A very early, smooth, round, bright scarlet sort for both green-house or outside. Sow in December or January for best results inside	\$.10	\$.25	\$.40	\$ 1.25
EARLIANA. The earliest for outside. Smooth, red, round but slightly flattened; good yielder until mid-summer .....	.10	.25	.40	1.25
John Baer. Very early round, bright red variety, good shipper ..	.10	.25	.40	1.25
Acme. An old sort, purple color, good yielder and suitable for canning or ketchup .....	.10	.25	.40	1.25
Dwarf Champion. Sturdy stalks, purplish-pink fruits, flattened and of medium size. Second early .....	.10	.30	.50	1.50
LIVINGSTON BEAUTY. Best for table use. Mild, pink, turning purple, large, smooth and handsome .....	.10	.25	.40	1.25
Stone. Best for canning. Heavy yielder .....	.10	.25	.40	1.25
Dwarf Stone. Fruit like the preceding .....	.10	.25	.50	1.50
LIVINGSTON'S GLOBE. Purplish-pink, main crop sort; fruit somewhat elongated at the blossom end .....	.10	.25	.40	1.25
Matchless. Large, smooth solid, main crop sort; color bright red .....	.10	.25	.40	1.25
Ponderosa. Immense size; small seed cavities; very solid; purplish pink; very mild flavor .....	.10	.40	.75	2.00
Golden Ponderosa. Like the preceding except in color .....	.10	.50	.90	3.25
Trucker's Favorite. Very similar to Beauty .....	.10	.30	.50	1.50
Early Detroit. Large, very early purplish pink variety .....	.10	.30	.50	1.50
Marglobe. A sort developed by the Dep't of Agriculture from Marvel and Livingston's Globe, but heavier and better yielder than the latter; pure scarlet; globe shaped .....	.10	.35	.60	1.75
Yellow Plum. Small yellow fruits used for garnishing and preserves .....	.10	.60	.90	3.00
Red Cherry. Used for preserves .....	.10	.60	.90	3.00

TOBACCO—(*Tabak*)

Connecticut Seed Leaf. This kind is more largely used in this locality than any other	\$.10	\$.30	\$.50	....
Havana. Higher flavor; used for wrappers .....	.10	.30	.50	....

TURNIP—(*Weise Ruebe*)

For home use for winter, Turnips, sown after July first and until middle of August are much milder and palatable, though not so large than if sown early. Early sown may be used when half grown, but soon get strong and woody. Ruta Bagas should be sown early and transplanted six or eight inches apart in the row. One ounce sows 100 feet of row.

	Pkt.	Oz.	¼ lb.	Lb.
Early Snowball. Nearly round; pure white; best early	\$.10	\$.15	\$.25	\$.75
White Egg. All white, oval sort for both early and late .....	.10	.15	.25	.75
RED or PURPLE TOP WHITE GLOBE. The leading main crop sort for late; does best on light soil .....	.10	.15	.25	.75
RED TOP STRAP LEAF or FLAT. Best late sort for heavy soil .....	.10	.15	.25	.75
Orange Jelly or Golden Ball. A yellow flesh turnip, for late sowing .....	.10	.15	.25	.75
IMPROVED PURPLE TOP RUTA BAGA. The best and practically the only one of this type sown here .....	.10	.15	.25	.75

Culture and Care of Flowers

IN OUR List of Flower Seeds will be found all those varieties known to be **desirable** and **worthy** the attention of florists and amateurs. Our Catalogue is arranged with a view to aid our patrons in their selection by offering the **very best** varieties of each species, and to avoid the confusion attending the selection from catalogues in which the greatest possible number of varieties are presented, regardless of their value, many of which only disappoint the cultivator by taking time and garden space which might otherwise be used in growing better flowers.

Success. With patience and the exercise of reasonable judgment, anyone may soon acquire experience enough to successfully grow most of the species of flowers; failure more often results from ignorance and neglect than from any fault of the seeds or of nature. **CONSTANT CARE IS REQUIRED** in any event.

Requisites. A few suggestions may prove of value to those who are unfamiliar with floriculture; the selection of the seeds, the preparation of the flower-beds or borders, the choice of location best suited to each species, the use of fertilizers, the time and manner of sowing seeds or of setting plants, the destruction of noxious weeds and injurious insects, and many other details incident to the cultivation of a flower garden—each of which requires care and more or less skill.

Reliable Seed. is the first requisite. We spare no pains or expense to procure the **VERY BEST**. A thorough trial of our seeds will do more to establish this fact in the minds of our patrons than any statement made by us would be likely to do.

Causes of Failure. The seeds of some of the species are very small and delicate, and from many causes are liable to fail, particularly when sown in the open ground. IF SOWN TOO EARLY, the earth lacks the warmth necessary to insure germination; IF COVERED TOO DEEPLY, the delicate sprouts cannot force their way through; IF HEAVY RAINS ENSUE, the seeds may be entirely washed away or the soil beaten down and crusted over, or perhaps left in such a wet condition as to cause the seed to decay. Again, the sowing may be followed by **EXTREME HEAT AND DROUGHT**, and if the seeds have started to germinate the germs are liable to become dry again, in which case they are utterly ruined.

When and How to Sow. The first of May is early enough, in this latitude, to sow most of the species in the open ground; too early sowing is a great mistake. The small and delicate seeds must be covered **VERY LIGHTLY** with earth; the finest of them had better be sown **WITHOUT ANY COVERING**, the simple pressure of a smooth board being sufficient. Repeated experiments with various kinds of delicate seeds, induces us to advise in addition, the covering of such seeds with sheets of newspaper until they are through the ground, thereby preventing the surface evaporation, which so often causes failure, besides protecting the seeds from being forced into the ground so deeply through careless watering, that they could not sprout. A light covering of fine Peat Moss will greatly increase the stand without harming the most delicate sprouts. Very delicate seeds, such as Salpiglossis and Giant Petunias are easily sprouted by filling the hollow side of a common brick with finely sifted soil on which the seed should be thinly sprinkled and the brick kept in a pan of water until the plants are large enough to transplant. By following one of these methods, many seeds that are rather difficult to start may be quite successfully grown. The larger and more hardy seeds may be planted deeper and some of them earlier. It is a safe rule to sow most seeds to a depth of **FOUR OR FIVE TIMES THE DIAMETER** of the seed itself.

Location. A rather light sandy loam suits most flowers, and, in such soils, seeds generally germinate well. Some flowers thrive best in a rather shady situation and in rather heavy clay soils (the Pansy is a notable instance), while others do best upon light, poor soils, and exposed to the full rays of the sun; this is particularly true of the Portulaca.

Early Sowing. The seeds of nearly all the annual varieties, and many of the biennials and perennials, may be sown in March or April, under glass frames, in greenhouses, or in small boxes in any sunny window. In this way a good stock of plants may be had at small expense, and a gain of several weeks made in the season of blooming; less weeding of the flower-beds will be necessary, and, when the plants are set out of doors further transplanting is not required. Shallow boxes, two or three inches deep, and with open seams at the bottom are the best in which to start the seeds. Fill these boxes to within half an inch of the top with good rich soil, mixed with about one-fourth sand; or, if convenient, procure some fine leaf mould from the woods. Make the surface level and smooth, and upon this scatter the seed sparingly. Use a fine sieve, with which sift carefully over the seeds just enough earth to cover them. Afterwards gently shower them with tepid water, using a fine sprinkler, and keep the boxes in a temperature as near 60° as possible. Avoid much watering unless the surface of the soil appears dry. Transplant into other boxes when the plants are large enough to handle, setting them from half an inch to an inch apart. Sometimes the young seedlings are attacked by a minute fungus, which causes them to "damp off." Lack of sufficient ventilation aggravates the trouble. By first treating the seed with a light dusting of Semesan, described more fully in the back of this catalogue, the danger from this source may be practically eliminated. However, if it does appear, no time is to be lost in transplanting the unaffected plants into other boxes. In setting plants out into the beds or borders, allow a liberal space for each; crowding too many into a small area is a mistake very often made.

Late Sowing. Most of the biennials and perennials may be sown late in the summer, from the middle of August through September, and they will then bloom the following season. When cold weather sets in, about the only protection necessary for the young plants is a covering of leaves, straw or litter to a depth of three or four inches, and a board on top to keep it in place. They should be uncovered soon after the middle of March.

Fertilizing. No matter what the soil is, heavy or light, the three major fertilizing elements are Nitrogen, Phosphorus and Potash re-enforced by plenty of humus or rotted vegetable matter, which is most easily obtainable from the compost heap or from sheep manure. Bone Meal ranks high as a source of Nitrogen and more particularly of Phosphorus and there are many brands of fertilizers that combine all three elements in varying amounts and in the total. The greater the total, the more sparingly should it be applied to avoid burning. The seed beds, in which plants are started, to be transplanted later, should be no richer than the garden and better results will follow if somewhat poorer. Put the fertilizer in the garden before or at the time of transplanting and if plants are not growing properly later on, water the ground around them with Nitrate of Soda or Nitrate of Potash two or three times, a teaspoonful of either in a gallon of water.

Annuals, Biennials, Perennials. Flowers are classified as Annuals, Biennials and Perennials. Annuals are those plants that bloom the first year from seed, and, after ripening their seeds, perish the same season. They comprise many of the most beautiful flowers, and, as a rule, are of easy culture. Some of the Biennials and Perennials will flower the first season if the seed is sown early, and they may then be kept over for another year or longer. Pansy, Snapdragon, Pinks, etc., belong to this class. Biennials bloom the second year from planting the seed, and then die. Perennials, as a rule, bloom the second year, and are more or less permanent thereafter. The seeds of some of the Perennials remain a long time in the soil before germinating. Several species of the Biennials and Perennials will succeed well if the seeds are sown in early autumn.

VINES

For Walls, Trellises, Porches and Pergolas

Balloon Vine	Cobaea	Hyacinth Beans	Passion Flower
Balsam Pear	Cypress Vine	Kudzu Vine	Sweet Peas, annual
Beans, various	Dolichos	Moonflower	Sweet Peas, hardy
Canary Bird Vine	Gourds	Morning Glory	Thunbergia
Cardinal Climber	Japanese Hop	Nasturtium, tall	

TRAILING PLANTS

For Window Boxes, Hanging Baskets and Vases

Forget-me-not	Lobelia	Nasturtium, tall	Portulaca
Ice Plant	Mimulus	Petunia	Verbena
Linaria			

LOW GROWING PLANTS FOR BORDERS AND EDGINGS

Ageratum	Coleus	Gomphrena	Phlox
Alyssum, white	Daisy	Heuchera	Poppies
Alyssum, hardy	Dianthus	Kochia	Polyanthus
Begonia	Eschscholtzia	Lobelia	Salvia
Bellis	Feverfew	Marigold, dwarf	Torenia
Campanula Carpatica	Forget-me-not	Nasturtium, dwarf	Verbenas
Candytuft	Four O'Clocks	Pansies	Viola Cornuta
Carnation	Godetia	Petunia	Zinnias, dwarf

PLANTS FOR THE SHADE

Aconitum	Daisies	Gaillardia Grdfl.	Nemophila
Aquilegia	Forget-me-not	Kudzu Vine	Pansies
Coreopsis Lanceolata	Four O'Clocks	Mimulus	Petunia

PLANTS FOR GREENHOUSE AND CONSERVATORY

Begonia	Coleus	Passion Vine	Torenia
Calceolaria	Cyclamen	Primulas	Verbena, Lemon
Carnation, Chabaud	Gloxinia	Schizanthus	Viola Odorata
Cineraria	Heliotrope	Sweet Peas	

PLANTS WITH ORNAMENTAL FOLIAGE

Amaranthus	Coleus	Euphorbia	Linaria
Canna	Begonia	Ice Plant	Ricinus
Centaurea	Eschscholtzia	Kochia	

EVERLASTING FLOWERS

Acroclinium	Ammobium	Elichrysium	Gomphrena
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THE MOST USEFUL FLOWERS FOR BOUQUETS

Achillea	Chrysanthemum	Heuchera	Salpiglossis
Aconitum	Cleome	Larkspur	Salvia
Acroclinium	Coreopsis	Lupin	Scabiosa
Ageratum	Cosmos	Marigold	Schizanthus
Ammobium	Dahlia	Mignonette	Stocks
Anchusa	Daisy, Shasta	Nasturtium	Sunflower
Antirrhinum	Dianthus	Nigella	Sweet Peas
Aquilegia	Dimorpotheca	Pansy	Sweet Sultans
Arctotis	Elichrysium	Pentstemon	Sweet William
Asters	Feverfew	Petunia	Valeriana
Balsam	Gaillardia	Phlox	Verbena
Calendula	Gomphrena	Poppy	Vinca
Campanula	Gypsophila	Pyrethrum	Wallflower
Candytuft	Heliotrope	Rudbeckia	Zinnia
Carnation			

HARDY PERENNIALS

Achillea	Chrysanthemum	Hollyhocks	Polyanthus
Aconitum	Coreopsis	Kudzu Vine	Poppy
Alyssum Saxatile	Daisy	Larkspur	Pyrethrum
Anchusa	Dictamnus	Lupin	Rudbeckia
Aquilegia	Forget-me-not	Monarda	Sweet Peas
Baptisa	Foxglove	Oenothera	Sweet William
Bocconia	Gaillardia	Pentstemon	Valeriana
Campanula	Geum	Phlox	Veronica
Candytuft, hardy	Gypsophila	Physalis	Viola Cornuta
Carnation	Heuchera	Physostegia	

General List of Flower Seeds

Our wide acquaintance with the trade, both in this country and abroad, places us in constant touch with the leading experts and specialists in seed growing from whom we buy direct. This not only reduces chances for error but fixes responsibility, assuring us of the choicest seeds and the latest introductions. We strive to make our list as complete as possible but of only such kinds as we know are suitable for this locality. Our friends may therefore feel sure of success with their selections under reasonable weather conditions.

In ordering, the numbers are sufficient.

NO.	ACHILLEA. (Milfoil or Yarrow.)	PKT.
1	Ptarmica "The Pearl." One of the best hardy white perennials. From spring till frost it is covered with heads of purest white double flowers. Easily grown from seed, flowering the first season if sown early. 2 ft.....	.10

NO.	ACONITUM. (Eisenhut.) (Monk's Hood.)	PKT.
	Hardy perennials with panicles of blue helmet-shaped flowers in the fall.	
2	Napellus. Well adapted for growing among the shrubbery and shady corners; 4 ft.....	.15

ACROCLINIUM

Beautiful and valuable everlasting flowers. Easily grown and used extensively for winter bouquets. Annuals. Bright Pink and White. 1 ft. NO.

- 3 Single Mixed PKT. .10
4 Double Mixed10



AGERATUM. (Leberbalsam.)
(Floss Flower.)

One of the very best bedding plants, being literally a sheet of bloom from early summer till frost. The various blue varieties are without doubt the most satisfactory bedding plants of this color for our trying climate. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May. Especially fine for pots or window boxes.

- 5 Dwarf Imperial. Clear Blue, ½ oz. 25c... .10
6 Dwarf Multiflora White..... .10
7 Little Dorrit. Blue, with white center, 6 in.10
8 Little Blue Star. An attractive mauve blue. 4 to 5 in..... .15

Plants ready in May.

AGROSTEMMA. (Rose of Heaven-Mullien Pink.)

Pretty, easily grown, hardy perennial, blooming the first year, if sown early. Silvery white leaves; flower stalks 2 ft.

- 9 Coronaria atrosanguinea. Glowing crimson10
10 Coronaria Mixed. Including white..... .10

ALYSSUM. (Steinkraut.)

Free-flowering plants especially suitable for borders. Grows well in any rich garden loam.

- 11 Procumbens, or Carpet or Snow. Of dwarf, compact habit. It begins to bloom when quite small, and the plants are a solid mass of white from spring to late autumn, and undoubtedly is the best white border plant in the list. Sweetly fragrant. Annual. 4 in..... .10
½ oz. 25c; ½ oz. 40c.

- 12 Saxatile Compactum (Basket of Gold). Showy golden-yellow flowers; hardy perennial; blooms the first season, if sown early indoors; 1 foot. ¼ oz. 40c..... .10

AMARANTHUS. (Amarant.)

Highly ornamental foliage plants, producing a striking effect in the flower garden. Sow the seeds early, and set out last of May, or in June, in rich soil. Annual.

- 13 Tricolor (Joseph's Coat). Red, yellow and green foliage, very attractive; 2 ft.. .10

ANCHUSA. (Alkanet.)

- 14 Italica, Dromore Variety. One of the best hardy perennials. Is becoming more popular each season, bearing flowers of the richest gentian-blue. Blooms freely all summer. 5 ft..... .15

ANTIRRHINUM. (Snapdragon.)
(Loewenmaul.)

Within the last few years Snapdragons have become immensely popular. This is not to be wondered at, as, whether used for cutting or for show in the garden, they are one of the most valuable flowers which can readily be grown from seed. Sown out of doors the first week of May, the plants bloom early in July, remaining in full flower until November. For earlier



ANTIRRHINUM (Snapdragon)

flowering, start indoors or in a frame in March, transplanting to the open when the weather is suitable.

If troubled with rust, dust the plants with powdered sulphur.

TALL MAXIMUM

The following list comprises the principal colors of the newest creation in Giant Snapdragons being a marked advance in size and brilliancy of color as well as compactness of flowers on the stem.

Plants ready end of May

- | NO. | | PKT. |
|-----|---|------|
| 15 | Apple Blossom. Rosy pink, yellow lip... | .10 |
| 16 | Brilliant Chamois. Rosy mauve..... | .10 |
| 17 | Canary Bird. Canary yellow, golden center | .10 |
| 18 | Cerebus. Carmine rose, yellow lip..... | .10 |
| 19 | Copper King. Velvety copper scarlet.... | .10 |
| 20 | Diamond. Golden yellow, lilac throat.... | .10 |
| 21 | Fire Flame. Dark purple and yellow.... | .10 |
| 22 | Golden Queen. Deep yellow..... | .10 |
| 23 | Indian Summer. Velvety copper..... | .10 |
| 24 | Purple King. Glowing deep purple..... | .10 |
| 25 | Ruby. Rich velvety ruby red..... | .10 |
| 26 | Snowflake. Pure white, yellow tube..... | .10 |
| 27 | The Rose. Rose pink..... | .10 |
| 28 | Wallflower. Brownish orange, copper red | .10 |

- 29 LAKEWOOD PRIZE MIXTURE. To all the above, we add some of the spotted and variegated sorts making a wonderful show. ½ oz. 50c..... .10

AQUILEGIA. (Columbine.) (Akeley.)

Plants ready early in May.

No hardy plant grown from seed is more easily handled than the Columbine. Seed may be planted in the open ground early in spring, and will bloom the same season; or they may be planted in August or September, and will come up early in spring to make vigorous plants, which will bloom abundantly during late spring and early summer.

Columbines should be planted wherever their presence will serve to lighten up a too stiff and formal planting, for no other plant is more generous of its blooms, or is more effectively adapted for cut flowers. 1½ ft.

- | | | |
|----|--|-----|
| 30 | Caerulea (Rocky Mountain Columbine). Violet-blue and white mixed..... | .10 |
| 31 | Californica Long Spurred Hybrids. Brightest colors | .10 |
| 32 | Chrysantha. Golden yellow..... | .10 |
| 33 | Mrs. Scott Elliott's Strain... The finest development of the long spurred type and a great variety of colors. The seed is imported by us from England and does exceedingly well here..... | .25 |
| 34 | Glandulosa Major. This type is without spurs and produces very large single flowers, black-violet with white corolla. A rare flower in our gardens..... | .25 |
| 35 | Hybrid Double Mixed. Choice colors.... | .10 |
| 36 | ARCTOTIS GRANDIS. (African Daisy.) A splendid annual with large daisy-like flowers of a pure white, the reverse of the petals being a pale lilac. Easily grown in the sun. Valuable for cutting from July until frost..... | .10 |

ASTERS

(Schoenkrantz, Aster.)

This flower is not only one of the most popular, but also one of the most effective of our garden favorites, producing flowers of great richness and variety of color, in the most perfect and beautiful form during the late summer and early fall. They bear a striking resemblance to Chrysanthemums and are fully as useful for cut flowers.

If Asters are grown in the same spot a few times, they are apt to be attacked by a disease that turns them yellow before they flower. They should be grown in a different bed each year and if the seed is treated first with Semesan, this trouble will be reduced. Sometimes ants carry Aphides to the roots and cause the plants to turn yellow and die. More large flowers will be produced if the center bud on the main stalk is pinched out as soon as noticed.

The recent development of Asters in California has placed them in a class with the finest and most satisfactory flowers we can have in our gardens.

37 Lakewood Prize Mixture. Our customers often find that the various types of Asters are so beautiful that it is difficult to choose between them. By mixing the tall growing varieties of every color in all the types we list below such as Beauty, Improved Giants, Branching, Royal, Ostrich Feather, etc., we have a mixture that will enable everyone to have a few plants of all the choicest kinds in a complete assortment of color. We cannot recommend it too highly. Trade pkt. 30c; 1/2 oz. 50c; pkt. .10

Improved Giants of California. The newest improvement in Asters. Ostrich-feather type; long stems, sturdy and erect in growth with flowers of immense size in a large range of colors.

38 Pure White15	39 Light Blue15
40 Peach Blossom15	41 Dark Purple15
42 Deep Rose15	43 Finest Mixed15

Single Giants of California. While single asters were the original form, this new, improved strain produces so much larger flowers that the similarity is not recognized. Flowers get three or four inches across with stems eighteen inches long. Very decorative.

44 Pure White15	45 Light Blue15
46 Rose Pink15	47 Lilac15
48 Finest Mixed15	

Late Beauty. This is an improved Vick's Branching type, very double and very large flowers; plants 2 to 3 feet high with stems 18 inches long. This is the latest to bloom, beginning in September and continuing until frost.

49 White Beauty, Giant White10	50 Azure Fairy. Dark lavender10
51 Peach Blossom10	52 Purple10
53 Rose Pink10	54 September Beauty. Flesh pink10
55 Finest Mixed. Trade pkt. 25c10	

Vick's Branching. From the time of its introduction this aster has been popular with both florists and amateurs on account of robust growth, long strong stems and abundance of flowers which are very double and compact form. Late blooming.

56 Pure White10	57 Azure Blue10
58 Crimson10	59 Light Lavender10
60 Rose Pink10	61 Purple10
62 Shell Pink (Mary Semple)10	63 Finest Mixed. Trade pkt. 25c, 1/4 oz. 50c10

Early Royal. This is an early, dwarf, branching aster, growing two feet high, with strong stems 12 to 15 inches long bearing medium sized flowers not compact and still not of the ragged type. Has proven very satisfactory here.

64 Pure White10	69 Finest Mixed. Trade pkt. 25c, 1/4 oz. 60c10
66 Deep Rose10	70 Ostrich Feather, Mixed. Finest of the ragged type10
68 Shell Pink10	71 Heart of France. Rich dark red10
65 Dark Lavender10	72 New Fancy Yellow. Best yellow to date10
67 Deep Purple10	

Auricula. See Primula.
Baby's Breath. See Gypsophila.
Bachelor's Button. See Centaurea.

NO. PKT.

BALLOON VINE. (Herzamen.)

(Cardiospermum Halicacabum.)

73 A very pretty climber, interesting for its inflated membranous capsule, from which it derives the name. Annual; 8 ft.10

BALSAM. (Balsaminen.) (Lady Slipper.)

One of the most beautiful and popular annuals, forming a cone of clear-colored and finely variegated, double, camellia-like flowers. Succeed in a rich soil. Annuals; 2 ft.

74 Splendid Mixture of Choicest Varieties. 1/4 oz. 25c.10

75 Camellia-Flowered. Finest mixed, 1/4 oz. 25c10

BALSAM PEAR. (Balsambierne.)

Curious climbers with ornamental foliage. The fruit is bright orange, and, when ripe, bursts open, exposing its bright-red seeds and yellow interior. Very effective on rock-work, stumps, etc. Annual; 10ft.

76 Momordica Charantia10

BAPTISIA. (False Indigo.)

77 Australis. Hardy perennial with pea-shaped, bright blue flowers.15

BEGONIA.

These plants rank with the Geraniums and Coleus as bedding plants, surpassing both for the sun and shade. Everblooming.

78 Vernon. Bright orange-carmine with deep red leaves. 1 ft 1/2 oz 90c.10

For Tuberous Rooted Begonias see later under Bulbs

Bellis Perennis. See Double Giant Daisy.

BOCCONIA. (Plume Poppy.)

Hardy perennial with silvery foliage and long loose spikes of flowers.

NO. PKT.

79 Japonica. Rosy-white flowers.15



BROWWALLIA. (Browallia.)

A favorite bedding plant, covered with rich, beautiful winged flowers during the summer and autumn months, supplying a shade of intense blue very uncommon; grows freely in any rich soil; blooms finely in the winter if the plants are lifted in autumn and cut back.

80 Elegans. Deep blue with white center; 1 1/2 ft.10

81 Elata Mixed. Blue and white; 18 in.10

CALCEOLARIA. (Pantoffelblume.)

Plants of a highly decorative character; very desirable for house or conservatory culture; remarkable for their size, color and markings. Sow the seeds in August or September for early flowering, in a light, rich compost. Tender perennial.

NO. PKT.
82 **Hybrida Grandiflora.** Self-colored and spotted varieties mixed; prize flowers. Trade pkt. \$1.00..... .25

CALENDULA. (Pot Marigold.) (Ringelblume.)

One of the best and showiest free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders, particularly bright in late fall, continuing in bloom from early summer until killed by frost. Valuable also for pot culture; blooming freely in winter and early spring; 1 ft.

83 **Ball's Orange.** Double large-flowered... .10
84 **Ball's Dark Golden Yellow.** Large flowered10
85 **Prince of Orange.** Double yellow, each petal striped orange..... .10
86 **Sulphur Queen.** Double large flowered lemon10
87 **Superb Mixed.** ¼ oz. 15c..... .10



CAMPANULA. (Bellflowers.)

Beautiful, well-known flowers, characterized by their richness of color, and profusion of bloom. Of a great variety of form, some being tall and imposing, while others are dwarf and compact. Indispensable for the border, edging, rockwork, etc. The taller growing sorts should be staked to prevent injury from high winds. They like good, rich soil, and last much longer if set in half shade.

CANTERBURY BELL. (Glockenblume.)

Canterbury Bells. The old-fashioned sort with large, beautiful bell-shaped blooms. Single. Biennials; 2½ ft.

88 **Purple**10 89 **Lilac**10
90 **Rose**10 91 **White**10
92 **Mixed, All Colors.** ½ oz. 25c..... .10

Cup and Saucer. Very handsome and much prized. The extra large calyx is of the same color as the flower and appears as a saucer under a cup. Biennials. 2½ ft.

93 **Purple**10 94 **Rose**10
95 **White**10 96 **Mixed.** ½ oz. 50c..... .10

Plants ready in May.

97 **Carpatia. (Harebell.)** A hardy and pretty perennial growing only 9 in. high. Unsurpassed for an edging to a hardy border or rockery. Blooms from June to fall. Mixed blue and white..... .15

Grandiflora. (Chinese Bellflower.) A fine, hardy perennial with buds that expand to look like miniature balloons, opening to a five-pointed star-like flower. Blooms for about eight weeks from the middle of July. One of our best hardy perennials. 2 ft.

98 **Blue**10 99 **White**10

NO. PKT.
100 **Mariesii.** A rare dwarf form, 6 inches high; beautiful dark blue large flowers and suitable for rock gardens..... .20
101 **Persicifolia. (Peach Bells.)** A handsome perennial with large, drooping bell-shaped flowers. Mixed blue and white. 3 ft.10

CANARY-BIRD VINE. (Tropaeolum Canariense.)

102 A beautiful rapid annual climber, the charming little canary-colored blossoms bearing a fancied resemblance to a bird with its wings half expanded. ¼ oz. 40c .10

CANDYTUFT. (Iberis.) (Schleifenblume.)

The annual Candytufts are universally known and cultivated, and considered indispensable for cutting. All the varieties look best in beds or masses. Seed sown in autumn produce flowers early in spring; when sown in April, flowers in June; successive sowings should be made at intervals. Hardy and easy to grow. Single plants transplanted look well and bloom profusely. 1 ft. Light, rich soil.

103 **Improved Empress.** Giant white. ¼ oz. 25c10
104 **Little Prince.** Dwarf white. ¼ oz. 25c.. .10
105 **Flesh Pink** .. .10 105½ **Crimson**10
106 **Rose Cardinal** .10 106½ **Light Violet**.. .10
107 **Fine Mixed.** All colors. ½ oz. 40c, 1 oz. 75c10
108 **Gibraltarica.** Lilac; perennial..... .15
108½ **Sempervirens.** White perennial..... .15

Canterbury Bell. .See Campanula.

Castor Oil Bean. See Ricinus.

CARDINAL CLIMBER.

109 A most beautiful and brilliant annual climber. A strong and rapid grower, attaining a height of 30 ft. in a season. Blooms from mid-summer until frost. It delights in a warm, sunny situation with good soil. Germination may be made more certain by filing a small notch in each seed before planting. Start the seed indoors in March and transplant, or sow in the open ground when the soil is warm in May. Very popular..... .10

CARNATION PINK. (Nelke.)

The most magnificent of all the Dianthus family. Flowers large, beautiful and delightfully fragrant. Sown in the spring, they bloom the second season. The plants are hardy the first winter; afterward they need protection. Perennials.

110 **Marguerite.** Dwarf mixed. If sown early will flower the first season; eminently satisfactory in the garden both in quantity and color of the flowers. ½ oz. 50c..... .10
111 **Early Dwarf Double Carnation.** Mixed.. .10
112 **Red Grenadin.** Double scarlet; 2 ft..... .15
113 **Fancy Picotee Carnation.** Prize stock; from stage-flowers; finest double mixture of Picotees, Carnations, Bizarres, Flakes, Fancies and Selfs; 2 ft..... .25
114 **Chabaud's Everblooming Mixed.** Symmetrical, branching habit. This strain is raised by a famous specialist in France. Blooms 5 months after sowing and continues indefinitely. 2 ft. Extra double mixed25

CELOSIA. (Cockscomb.)

Free blooming annuals of graceful habit and worthy of space in every garden. Very popular because of their ease of culture and large showy combs or feathery spikes. Should be sown early and transplanted in June in light, rich soil. Plants may be lifted in the fall and potted for house decoration, where they remain in bloom for a long period.

115 **Japan Crimson.** Huge combs, much cut and beruffled; 3 ft..... .10
116 **Golden Yellow.** Crested..... .10
117 **Paeony Red.** Crested..... .10
118 **Glasgow Prize.** Extra fine. Dark leaves and bright crimson combs; 1 ft..... .10
119 **Dwarf Mixed.** Shades of red, pink, and yellow. Very fine. Large combs; 1 ft.. .10
120 **Ostrich Plume Mixed. (Thompson's Magnifica.)** Beautiful plumes of all colors from clear yellow to the darkest red; 2 ft.10
121 **Childsi. (Chinese Wool Flower.)** Crimson15



Bachelor's Buttons.

CENTAUREA. (Flockenblume.)

These include such popular annuals as Bachelor's Buttons and Sweet Sultans which are favorites everywhere, they being easy to grow, profuse bloomers from mid-summer to late fall, and requiring but little care. Silver-leaved sorts are also included which are used as borders to beds and for porch-boxes. Annuals.

NO.		PKT.
122	Cyanus. (Cornflower.) Beautiful gentian-blue.....	.10
123	Cyanus Single Mixed. 1/4 oz. 25c.....	.10
124	Cyanus Double Mixed. 1/4 oz. 35c.....	.10
125	King of Blue Bottles. Large blue, red center. Dwarf and compact. Very striking. 1/4 oz. 50c.....	.15
126	Montana. (Hardy Cornflower.) Blue...	.10

Dusty Millers.

127	Candidissima. Silvery white foliage; broad and deeply cut. Half-hardy; 1 ft. 1/8 oz. 75c.....	.15
128	Gymnocarpa. Finely cut and graceful silvery foliage. 1/4 oz. 50c.....	.15

See also Sweet Sultans.
Chinese or Indian Pink. See Dianthus.



Painted Daisy

**CHRYSANTHEMUM.
(Wucherblume Goldblume.)**

Showy and effective garden favorites. The annual varieties are in great demand, and extensively grown for cut flowers, making a fine pot plant for winter, and excellent for beds or borders through the summer. Succeed best in loam and rotted manure, equal parts.

Seeds may be sown in hotbeds during March or outdoors during May. Pinching back in early growth makes bushy and shapely plants. Average height 1 1/2 ft.

129	Chinese Large Flowered Double Mixed. Well-known variety for pot and greenhouse culture; half-hardy perennial....	.25
130	Japonicum Double Mixed. Magnificent perennials; white and yellow.....	.25

NO.		PKT.
131	Double Mixed Coronarium. Annual.....	.10
132	Single Mixed Carinatum. (Painted Daisies.) Annual .....	.10

Plants of hardy garden varieties ready in May and June.

CINERARIA. (Aschenpflanze.)

A favorite greenhouse plant with a great variety of beautiful colors, blooming through the winter and spring months. Seed should be sown in July and August; when large enough, put in an equal mixture of loam, leaf-mold and sand, and in December repot in a stronger soil.

133	Hybrida Grandiflora. This strain saved only from extra large-flowering prize varieties; 1 1/2 ft.....	.50
134	Hybrida Grandiflora Nana. New, large-flowering, dwarf varieties, splendid strain; 8 in.....	.50

CLEOME PUNGENS.

Singular showy plants, attractive for a background to other flowers; growing 3 ft. high and usually called:

135	Giant Spider Plant. Pink.....	.10
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CLARKIA.

This, the Rocky Mountain Garland Flower, can easily be grown in the garden where its dainty sprays of double flowers in delicate shades of many colors, make a fine display. They also make a splendid cut-flower, most of the buds opening in course of time. Annual.

136	Double Pure White .....	.10
137	Double Apple Blossom Pink.....	.10
138	Double Brilliant Carmine .....	.10
139	Double Coppery Red .....	.10
140	Double Violet .....	.10
141	Double Finest Mixed. 1/4 oz. 60c.....	.10

COBAEA. (Cobaea.) (Cathedral Bells.)

142	Scandens. A magnificent rapid-growing vine, with beautiful foliage, and large white or purple, bell-shaped flowers; seed should be planted edgewise, and covered lightly; best sown indoors in March. 1/4 oz. 50c.....	.15
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Plants ready in May.

Cock's Comb. See Celosia.

COLEUS.

A great variety of brilliant colors can be had in plants grown from our seed. Extensively used for bedding, they making a fine show in any sunny spot. Best when sown indoors in March or April.

143	Finest Mixed. A very choice mixture. Trade pkt. \$1.00.....	.25
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Plants ready in June.

Columbine. See Aquilegia.

Convolvulus Major. See Morning Glory.

COREOPSIS. (Calliopsis.)
(Gottesaugen.)

Showy and beautiful free-flowering plants of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and massing. It is best to sow them where they are to bloom, thinning out to stand 6 inches to 12 inches apart. By keeping the old flowers cut off the flowering season can be lengthened until late autumn.

NO.		PKT.
144	Fine Mixed Tall. All colors. $\frac{1}{4}$ oz. 25c.	
	Annual .....	.10
145	Coronata. (Crown of Gold.) Large golden yellow. Very fine for cutting. 1 ft. Annual .....	.10
146	Drummond. (Golden Wave.) Rich yellow with a circle of crimson-brown about the center. $1\frac{1}{2}$ ft. Annual .....	.10
147	Purpurea. Elegant dark-brown. $1\frac{1}{2}$ ft. Annual .....	.10
148	Tinctoria. Golden-yellow and brown. $1\frac{1}{2}$ ft. Annual .....	.10
149	Lanceolata Grandiflora. This is one of the finest of hardy plants with large, showy, bright yellow flowers produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants, having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year if sown early. $\frac{1}{8}$ oz. 20c.....	.10

Plants ready end of April.

COSMOS.

Beautiful autumn-blooming plants. They produce thousands of beautiful flowers in pure white, pink and crimson shades, furnishing an abundance of cut flowers for autumn decorations when other flowers are scarce. Should be sown in spring in the open ground, when danger of frost is past, or the seed may be started under cover and afterwards transplanted. Plant not less than 18 inches apart in rows or in masses in beds. When the plants are about a foot high the tops should be pinched out to induce a bushy growth. They prefer a rather light, not too rich soil, but do well almost anywhere.

150	Early Flowering Mixed. Will bloom end of July if started early indoors. $\frac{1}{4}$ oz. 30c.....	.10
151	Early Crested Mixed. Semi-double flowers, like Anemones; most beautiful new type. $\frac{1}{4}$ oz. \$1.00.....	.15
152	Late Mammoth Crimson. Brilliant color.....	.10
153	Lady Lennox. Mammoth pink.....	.10
154	White Lady Lennox. Mammoth flowered.....	.10
155	Late Crested Mixed. Anemone flowered. $\frac{1}{4}$ oz. 75c.....	.15
156	Superb Mixed. Our own mixture of all the late sorts.....	.10

$\frac{1}{4}$ oz. 40c; ounce \$1.25.

Plants ready in June.



CYCLAMEN. (Erdscheibe, Alpenveilchen.)

One of the most popular plants for winter and spring blooming. The foliage is beautifully marked, and the flowers are extremely handsome. Sow the seed in a compost of well-rotted manure, leaf-mold and coarse sand, thoroughly mixed, and they will make flowering bulbs in one year,

if well grown. They require gentle heat and even temperature.

NO.		PKT.
157	Extra Mixed Persicum. Prize stock; superb strain of very large and rich-colored flowers .....	.25

CYPRESS-VINE. (Ipomea.) (Quamoclit.)

A popular climbing plant with delicate, fern-like foliage, and beautiful, star-like flowers. Soak the seed a day before sowing. Annual; 10 ft.

158	Scarlet .....	.10
159	White .....	.10
160	Mixed. $\frac{1}{4}$ oz. 40c; oz. 75c.....	.10

Summer Cypress. See Kochia.



DAHLIA. (Dahlie.)

This favorite fall flower to succeed well should have a strong, deep and rich soil. The roots should be stored during the winter in a dry, warm cellar, and covered with sand. If the seed is started very early in a hotbed, and transplanted in May, the plants usually bloom the first year. Half-hardy perennials.

161	Cactus Mixed. This is a very desirable type and much grown. Varieties will not grow true from seed.....	.15
162	Paenony Flowered. Immense, semi-double flowers .....	.15
163	Extra Fine Double Mixed. Saved from very choicest varieties.....	.10
164	Single Mixed. From finest varieties. Single Dahlias will flower the first season from seed.....	.10

Dahlia roots ready in April.

DOUBLE GIANT DAISY. (Bellis Perennis.)
(Tausendschoen.)

These English daisies are well-known perennials admirably adapted for borders, beds or for pot-culture. They grow best in a shady and rather cool situation, in loamy soil richly manured.

165	Etna. Quilled dark red.....	.15
166	Monterosa. Quilled pink.....	.15
167	Giant Pure White......	.15
168	Giant Mixed. A vast improvement over the common strains of English Daisies, the flowers often being as large as a silver dollar. Trade pkt. \$1.00.....	.15

Plants, one dozen in a basket, ready in May.

SHASTA DAISY. (Chrysanthemum Maximum.)

169	A splendid hardy perennial of Mr. Burbank's introduction with flowers of the largest size. In form like the common field daisy yet vastly superior. Pure white, long strong stems and very free blooming. Excellent as a cut-flower. Trade pkt. 50c.....	.15
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Clumps ready in April.

DIMORPHOTHECA. (African Golden Daisy.)
 NO. PKT.
 170 **Aurantiaca Hybrida.** Beautiful new hybrids, varying in color from the purest white through the various shades of yellow and orange to rich salmon shades, many being zoned with several of these colors around the black disc..... .15

DELPHINIUM. (Larkspur.)
 In variety and beauty of its blue tints, which are as numerous as they are charming, no other plant can equal the Delphinium. The brilliant flowers are strongly effective in beds or masses, in borders, shrubberies, or in combination with white lilies. Some of the species flower both early and late; the season for all can be prolonged by cutting away withered flower-stems. All varieties are easily cultivated and adaptable to many conditions, but in a soil deeply dug and well enriched with fine old manure, their blooms are the finest. Setting them 1½ to 2 feet each way is not too much for the taller sorts.

Perennial Varieties.

For annual sorts, see Larkspur.

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|---|-----|
| 171 Belladonna. (Everblooming Hardy Larkspur.) This is the freest and most continuous blooming Hardy Larkspur. The clear turquoise-blue of its flowers is not equalled for delicacy and beauty. A really exquisite Larkspur. 1 ft..... | .20 |
| 172 Bellamosa. Like the preceding but dark blue..... | .20 |
| 173 Chinense. (Blue Butterfly.) A distinct and neat variety, growing about 18 inches high, with fine feathery foliage, and producing freely spikes of large blossoms. Mixed blue and white. ¼ oz. 25c..... | .10 |
| 174 Elatum. (Bee Larkspur.) Rich blue of various shades with black centres; grows 3 to 5 ft. high..... | .15 |
| 175 Formosum. Beautiful spikes of rich blue flowers, with a white centre; 3 ft. ¼ oz. 25c..... | .15 |
| 176 Hollyhock Strain. Mixture of light shades; double flowers; long spikes; sturdy stalks; new..... | .25 |
| 177 Gold Medal Hybrids. Produce strong, vigorous plants with fine long spikes and flowers in many shades of blue. Trade pkt. 60c..... | .15 |
| 178 English Prize Mixture. Mammoth flowering in the richest shades of blue..... | .20 |

Plants ready in May.

- DIANTHUS. (Chinese Pink.) (Nelke.)**
 The following all bloom the first year, and are highly valued for the beauty of their flowers, which present a rich variety of colors. The different varieties are hardy, and usually live over winter, blooming more profusely the second year especially if sown in August when they start blooming the following May. 1 ft.
- | | |
|---|-----|
| 179 Alwoodii. A new strain of pinks in mixed colors, mostly double; hardy..... | .25 |
| 180 Double Brilliant Red. An elegant shade for adding a splash of color to the garden. Very fine..... | .10 |
| 181 Chinese Double Extra Fine. A splendid mixture suitable for beds and borders. Very brightest colors. Trade pkt. 25c..... | .10 |
| 182 Double Japan Fringed. Large flowers varying from the richest crimson to the most delicate shade of pink..... | .15 |
| 183 Plumarius Double. (Double Hardy Garden Pinks.) The finest shades for summer-blooming borders. Does well in sun or shade..... | .20 |

Plants in May.

- DICTAMNUS. (Gas Plant or Burning Bush.)**
 An interesting perennial bush growing two feet high and bearing numerous flowers early in the season that emit a pleasing fragrance.
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|---------------------------------------|-----|
| 184 Fraxinella. Deep pink..... | .20 |
| 185 Alba. Pure white..... | .20 |

DIDISCUS. (Blue Lace Flower.)

- A pretty annual growing two feet high and bearing long stems crowned with a head of lavender flowers very similar to the common Queen Anne's Lace which is white. Excellent cut flower.
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| 186 Coeruleus. Blue lavender. Trade pkt. 60c..... | .15 |
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DOLICHOS. (Hyacinth Bean.)
 A beautiful quick-growing climber, with purple and white flowers blooming in clusters resembling the blossoms of hyacinths. Will thrive in a hot situation; annual; 15 ft.

187 Soudan. Purple. ¼ oz. 15c, oz. 40c.....	.10
188 Japanese. White. ¼ oz. 15c, oz. 40c.....	.10

Dusty Miller. See Centaurea.

ERYSIMUM. (Fairly Wallflower.)

An annual bearing heads of flowers somewhat like Candytuft continuously until frost.

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|---|-----|
| 189 Perofskianum. Orange yellow..... | .10 |
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ESCHSCHOLTZIA. (California Poppy.)

Attractive annuals with light green feathery foliage, growing a foot high and bearing poppy-shaped, flowers until frost.

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|--|-----|
| 190 Aurantiaca. Rich orange yellow. ¼ oz. 25c..... | .10 |
| 191 Golden West. Deep yellow with orange center..... | .10 |
| 192 Hybrid Mixed. New, large flowering erect type in a great color range such as pink, purple, scarlet, etc. ½ oz. 25c..... | .10 |

EUPHORBIA. (Snow on the Mountain.)

(Wolfsmilch.)
 A showy border plant, foliage veined and margined with white. Grows well in common garden loam.

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| 193 Variegata. Very ornamental. Annual; 1½ ft. ¼ oz. 30c..... | .10 |
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FORGET-ME-NOT. (Myosotis.)
(Vergiss-mein-nicht.)

Few spring flowers are more admired than the lovely Forget-Me-Nots, which are especially effective when grown in masses. Are hardy if given slight protection through the winter. Seed may be sown any time from spring till mid-summer. Dissitiflora comes into bloom in April, and is largely used for bedding or borders in connection with spring-flowering bulbs, Pansies, etc. The Palustris sorts do not bloom till May, but continue till fall. Succeed best in moist situations.

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| 194 Palustris. Large-flowering. (True Forget-me-not.) Beautiful blue; Perennial, but blooms first year. ½ ft. ¼ oz. 50c.. | .10 |
| 195 Palustris Semperflorens. A dwarf form blooming all summer..... | .10 |
| 196 Alpestric Elegantissima. Mixed blue white and rose; dwarf..... | .10 |
| 197 Ruth Fisher. Dark, glossy foliage; largest blue flowers; dwarf..... | .25 |

FOUR O'CLOCK. (Mirabilis.)
(Wunderblume.)

A well-known, old-fashioned, garden favorite with beautiful foliage and fragrant flowers. They will grow anywhere in the sun, require no special care and are especially useful as a temporary hedge. In rich loam, plants will spread three feet. Blooms first year.

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| 198 Hybrid Fine Mixed. A splendid mixture of all colors in great variety. ½ oz. 15c, oz. 25c..... | .10 |
|--|-----|



FOXGLOVE. (*Digitalis.*)
(Fingerhut.)

Tall stately spikes with large, tube-like flowers prettily spotted. Handsome and ornamental plants for the border, preferring a rich loam and partial shade. Biennials. 3 ft.

(*Gloxinioides.*)

NO.		PKT.
199	Pure White .....	.10
200	Rose Pink .....	.10
201	Purple .....	.10
202	Mixed .....	.10

Plants ready first of May.

GAILLARDIA. (*Gaillardie.*)
(Blanket Flower.)

These are among the showiest plants in the garden, blooming as they do during a long season from early summer until frost. The daisy-like flowers are generally red with yellow tips. Excellent for cutting. Easily grown in any location where a blaze of color is wanted. 18 inches.

203	Single Annual Mixed.....	.10
204	Double Annual Mixed.....	.10
205	Grandiflora Mixed. Very large, handsome flowers. One of our most popular perennials. 1/4 oz. 25c.....	.10
206	Grandiflora Compact Mixed. Dwarfier than the preceding.....	.10

Plants of the hardy kind ready in May.

GEUM.

Low growing hardy perennial sending up many stalks bearing fine double flowers that keep well when cut. Picking them greatly prolongs the blooming period.

207	Lady Stratheden. Fine double yellow...	.25
208	Mrs. Bradshaw. Large double crimson scarlet .....	.15

GILIA.

Easily grown annual with finely cut foliage and globe-shaped flowers continuing to bloom for a long period. 18 inches.

209	Capitata. Rich blue, in clusters.....	.10
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Gloxinia

GLOXINIA.

Exquisite plants for the house and conservatory. Handsome bell-shaped flowers of the richest colors.

210	Choice Hybrid Mixed. Saved from a splendid collection of French varieties. Very fine50
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Also Bulbs in April and May.

Gilliflower. See Stocks.

GODETIA. (*Godetie.*)

An attractive hardy annual, deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of satiny texture in many rich and varied colors. They do best in a rather poor soil. 1 foot.

211	Tall Finest Mixed. All colors.....	.10
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GOMPHRENA. (*Globe Amaranth.*)
(*Kugelamaranth.*)

Well-known everlasting, with showy flowers resembling clover heads; extensively used in winter decorations. Start the seed in heat, and transplant, as they are slow to germinate outside. Annuals.

212	Globosa Mixed. 2 ft.....	.10
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GOURDS. (*Kuerbris.*)

Where an immense amount of vine is wanted quickly gourds are very useful. Most will grow 20 to 30 feet in a season. The fruit is curiously-shaped and ornamental. Especially adapted for pergolas, trellises, and fences.

213	Hercules Club. Club-shaped.....	.10
214	African Pipe. (Calabash.) Smoker's delight .....	.10
215	Dish Rag .....	.10
216	Bottle-Shaped. Very desirable.....	.10
217	Dipper .....	.10
218	Large Varieties, Mixed. oz. 30c.....	.10
219	Egg-Shaped. Resembling an egg.....	.10
220	Mock Orange. Shape and color of an orange .....	.10
221	Pear-Shaped Bi-Color. Half green, half yellow .....	.10
222	Small Varieties, Mixed. oz. 30c.....	.10

GYPSOPHILA. (*Gypskraut.*)
(*Baby's Breath.*)

Graceful, free-flowering plants. Flowers small, but produced in great quantities in loose panicles; elegant for bouquets. Succeed well in common garden soil.

223	King of the Market. Finest strain of pure white. 1/2 oz. 15c, oz. 25c.....	.10
224	Elegans Rosea. Pink, annual, 1 1/2 ft....	.10
225	Muralis. Dwarf pink, annual, 6 in.....	.10
226	Paniculata. A fine hardy white perennial especially for bouquets; 2 ft.....	.10
227	Paniculata, Flore Pleno. Double white..	.20

Plants of the latter ready first of May.

Helianthus. See Sunflower.
Helichrysum. See Elichrysum.

HELICHRYSUM. (*Everlasting or Straw Flower.*)
(*Strohblume.*)

The most popular of all the Straw Flowers. Easily grown annual in any garden with rich soil. Flowers should be cut when half open and hung upside down to dry. 2 to 3 ft.

228	Silver Ball. Pure white.....	.10
229	Salmon Queen. Rare shade.....	.10
230	Golden Ball. Pure yellow.....	.10
231	Rose Queen. Rosy crimson.....	.10
232	Violet Queen. Deep violet.....	.10
233	Fireball. Scarlet .....	.10
234	Crimson .....	.10
235	Finest Double Mixed. Several other shades in addition to all the above large flowering sorts. 1/4 oz. 40c, oz. \$1.25 .....	.10

HELIOTROPE. (*Sonnenwende.*)

Well known deliciously fragrant plants; excellent for bedding purposes or pot-culture. Half-hardy perennial.

236	Lemoine's Giant Finest Mixed. Best strain10
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Plants ready end of May.

HEUCHERA. (*Alum Root.*) (*Heuchere.*)

Desirable bushy, hardy perennials, bearing many slender stems of bright, dark-crimson flowers during July and August. Grow in any good garden soil.

237	Sanguinea Splendens. Dark-crimson; 1 ft.25
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Hibiscus. See Mallow.



HOLLYHOCK. (Stock-rose.)

This is one of our handsome ornamental biennials, bearing spikes of flowers, about 5 ft. high, of almost every color. A clump in any garden gives an effect not obtainable with any other plant. Without an equal for planting among shrubbery or as a background. Seed sown in June or earlier will flower the following season. They require dry, deep soil, enriched with plenty of manure.

NO.	Best Double Varieties	PKT.
238	Cherry-red ..	.10
240	Flesh-pink ..	.10
242	Sulphur-yellow .....	.10
244	SUPERB MIXED. Our own mixture of the choicest kinds, all colors. A beautiful assortment. ½ oz. 25c.....	.10
245	Allegheny. Semi-double, fringed; mixed colors; quite unlike the preceding and very showy .....	.10

Plants early in May.

Hyacinth Bean. See *Dolichos*.

HONESTY. (*Lunaria*.)
(Satin Flower.)

Hardy biennial thriving almost anywhere in the sun or shade. The purple, crimson or white flowers are followed by flat transparent seed pods that are much used for winter bouquets.

246	All colors mixed.....	.10
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HUNNEMANNIA.
(Giant Yellow Tulip Poppy.)

An annual with large, golden yellow, poppy-like flowers from mid-summer until frost. The plants are bushy, two feet high with feathery leaves light green in color. Excellent cut-flower.

247	<i>Fumariaefolia</i>10
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ICE-PLANT. (*Eisplanze*.)

248	A pretty little trailing plant; the leaves and stalks being covered with small, watery globules, giving it the appearance of being covered with ice. A valuable plant for dry, sunny locations on banks, rockwork, borders and hanging-baskets. Annual10
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Ipomoea. See *Morning Glory*.

JAPANESE HOP VINE. (*Humulus Japonicus*.)
(Hopfen.)

A very rapid growing vine, with fine foliage, which is very dense and quite free from insect enemies, and which endures the heat remarkably. Grows 25 ft. high and self sows if the ground is not disturbed. Annual.

249	Green Leaved. Large, dark foliage; ¼ oz. 15c .....	.10
250	Variegated. Like the preceding except with variegated foliage. Makes a handsome vine; ¼ oz. 20c.....	.10

Joseph's Coat. See *Amaranthus*.

Kenilworth Ivy. See *Linaria*.

KOCHIA. (Summer Cypress.) (Burning Bush.)

An annual ornamental plant that closely resembles a small cypress tree. It grows as much as 3 ft. high and in the fall changes from green to a flaming red. It makes an exceedingly attractive plant for a temporary hedge or a border for a bed of tall growing plants. The plant will bear

trimming like hedge plants and is easily grown from seed and readily transplanted.

251	Trichophylla. True Summer Cypress; ½ oz. 15c.....	.10
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KUDZU VINE. (Jack-and-the-Beanstalk.)

252	A rapid growing vine of great merit. Leaves light green and heart-shaped. Attains a growth of 25 ft. the first season if started in a hothouse early. Perennial10
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Roots ready in April.



LARKSPUR. (*Delphinium*.) (Rittersporn.)
Annual Sorts.

For perennial varieties, see Delphinium.

This is one of our best garden flowers. Seeds sown in the open ground before the close of April will produce flowering plants by the beginning of July, and give a continuous succession of flowers from then until frost. They make handsome beds and their free, graceful habit and bright colors are very effective when interspersed in the old-fashioned flower or shrubby border. Good, rich soil dug deep and a sunny location suit them best.

Double Branching or Stock-Flowered. The finest double flowers and colors. 2½ ft.

253	Pink .....	.10	254	Lilac .....	.10
255	Carmine .....	.10	256	Light Blue ..	.10
257	White .....	.10	258	Dark Blue ..	.10
259	Superb Mixed. All colors. ¼ oz. 40c.....	.10			

LATHYRUS. (Perennial Sweet Peas.)

Excellent creeping vine for covering rocks, fences, etc., or tied to 3-foot stakes. Make fine cut-flowers.

260	White Pearl..	.15	261	Pink Beauty..	.15
262	Crimson .....	.15	263	Fine Mixed ..	.15

LAVATERA. (Annual Mallow.)

264	Trimestris Mixed. A very beautiful and showy annual, growing about 2 ft. high and covered during the entire summer with large cup-shaped shrimp-pink flowers; in a border or bed the effect is very bright. Sow in May where they are to bloom and thin out to 12 in. apart.....	.10
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Lavender. See *Herbs*.

LIATRIS. (Blazing Star or Gay Feather.)

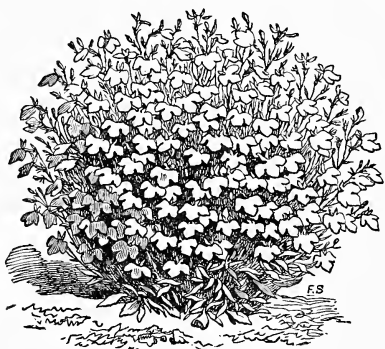
Strikingly conspicuous hardy perennial growing 5 ft. tall and bearing a long spike of rose-purple flowers in mid-summer.

265	<i>Spicata</i>15
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LINARIA. (Kenilworth Ivy.) (Cymbelkraut.)

This is perhaps better known under the name of *Coliseum* or *Kenilworth Ivy*. It is a very handsome trailing plant, suitable for hanging-baskets and window boxes.

266	<i>Cymbalaria.</i> Lavender and purple.....	.10
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LOBELIA. (Lobelia.)

Exceedingly pretty, profusely-blooming plants, of easy culture; valuable for beds, borders, baskets, etc. Tender perennials, flowering first season from seed.

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|-----|---|------|
| NO. | | PKT. |
| 267 | Erinus Gracilis. Light blue; trailing; fine for baskets. Light green foliage. $\frac{1}{8}$ oz. 40c..... | .10 |
| 268 | Crystal Palace Compacta. Erect; dark blue; for bedding. Dark green foliage. 6 in. $\frac{1}{8}$ oz. 50c..... | .10 |

Love in a Mist. See Nigella.

Lovegrove. See Nemophila.

LUPINE. (Wolfsbohne.)

Easily grown plants producing long spikes of different colored pea-shaped flowers. Valuable for beds and cut-flowers.

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|-------------------------|--------------------|-----|--------------------------|-----|
| Annual Sorts. | | | | |
| 269 | Rose | .10 | 270 Sky Blue | .10 |
| 271 | White | .10 | 272 Mixed | .10 |
| Perennial Sorts. | | | | |
| 273 | Rose | .10 | 274 Sky Blue | .10 |
| 275 | White | .10 | 276 Mixed | .10 |

LYCHNIS. (Rose Campion, Lamp Flower.)

Perennial of easy culture growing two feet high with heads of conspicuous scarlet or orange colored flowers that, with proper pruning to prevent seeding, will bloom for a long time.

- | | | |
|-----|--|-----|
| 277 | Chalcedonica. Bright scarlet..... | .15 |
| 278 | Haageana. Brilliant orange scarlet..... | .15 |

Marguerite. See Carnation.

Matricaria. See Feverfew.

Martynia. See under Herbs.

MALLOW MARVELS.

There is no more striking sight than a plant of this grand perennial in full flower in August and September. The individual flowers are of enormous size, many measuring 9 in. or more across. In texture they resemble the finest satin. Their coloring is gorgeous, embracing all the beautiful variations from white to deep red. Our seed has been grown from plants selected for size and brilliancy of bloom. Everyone should have a few plants of these. They adapt themselves readily to all locations and conditions of soil. Very popular.

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| 279 | Splendid Hybrid Mixed. $\frac{1}{8}$ oz. 50c..... | .10 |
|-----|--|-----|

Roots ready in May.

MAURANDIA.

Half hardy climber that blooms the first season from seed. Used for trellises, hanging baskets and porch boxes.

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|-----|---|-----|
| 280 | Fine Mixed. Blue, purple and white.... | .15 |
|-----|---|-----|

MARIGOLD. (Tagetes.) (Sammefblume.)

In the autumn these old garden favorites are in their prime with a wealth of bright colors. Easy of culture and suited to bedding in light soil in full exposure to the sun. The rich yellows in combination with the blue Larkspurs and Corn-flowers are very striking.

Double African Sorts.

These are uniformly large and self-colored in yellow or orange.

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|-----|---|-----|
| 281 | Tall Orange | .10 |
| 282 | Tall Lemon | .10 |
| 283 | African Tall Double Mixed. $\frac{1}{8}$ oz. 25c.. | .10 |



French Marigold

French Sorts.

These are smaller in size of flower but none the less handsome and striking. Includes both striped and single kinds. Fine for edgings.

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|-----|---|------|
| NO. | | PKT. |
| 284 | Golden Heart. Very large flowering. Golden yellow, brown margin..... | .10 |
| 285 | French Tall Double Mixed. $\frac{1}{8}$ oz. 15c... | .10 |
| 286 | Single Legion of Honor. Dwarf, golden yellow with a crimson spot on each petal | .10 |
| 287 | French Double Dwarf Mixed. $\frac{1}{8}$ oz. 15c. | .10 |

MIGNONETTE. (Reseda.)

A well-known favorite for pot or garden culture, with very fragrant spikes of flowers. If well thinned out they produce stronger plants and larger spikes of flowers. Grown in light, sandy soil, its fragrance is much stronger than when grown in a rich soil. Cannot be transplanted. Annual.

- | | | |
|-----|--|-----|
| 288 | Large Sweet-scented. The best for garden. $\frac{1}{4}$ oz. 20c, 1 oz. 60c..... | .10 |
| 289 | Machet. Of dwarf pyramidal growth, bearing numerous flower stalks; highly colored and very fragrant. $\frac{1}{4}$ oz. 25c.... | .10 |
| 290 | Goliath. Of strong, yet compact habit, with rich green foliage; the giant trusses of flowers being borne on erect, strong, stiff stalks and surpassing all others in brilliancy of color; especially suited for house culture. $\frac{1}{4}$ oz. 50c..... | .10 |
| 291 | Pyramidal Salmon Queen. $\frac{1}{4}$ oz. 40c.... | .10 |

MIMOSA. (Sensitive Plant.) (Sinnpflanze.)

A very interesting and curious plant, its leaves closing if touched or shaken. Good garden loam. Annual.

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|-----|--|-----|
| 292 | Pudica. Pinkish-white; $1\frac{1}{2}$ ft..... | .10 |
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MIMULUS.

- | | | |
|-------------------|---|-----|
| 292 $\frac{1}{2}$ | Moschatus. (Musk Plant.) A small trailing plant with yellow flowers and fragrant foliage; used in hanging baskets or pots and to cover the soil in pots containing large plants..... | .15 |
|-------------------|---|-----|

Mirabilis. See Four O'Clocks.

Momordica. See Balsam Pear.

MONARDA. (Bergamot.)

A perennial aromatic herb, growing two feet high and bearing tufted heads of red or deep rose colored flowers. An old-fashioned favorite.

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|-----|---|-----|
| 293 | Didyma. (Cambridge Scarlet.) Lustrous dark scarlet | .15 |
|-----|---|-----|

Monk's-hood. See Aconitum.

MORNING GLORY. (Trichterwinde.)
(*Convolvulus Ipomoea*.)

Extensive genus of twining plants; remarkable for their fine foliage and showy flowers. Well adapted for open air or greenhouse culture. Annuals.

NO.		PKT.
294	Finest Mixed. Imported from France; includes every color. Oz. 35c, $\frac{1}{4}$ lb. \$1.00	.10
295	Imperial Japanese. Giant flowers in many shades and color combinations and will not scatter seed. Soak the seed 24 hours before sowing or some may take all summer to sprout. Oz. 40c, $\frac{1}{4}$ lb. \$1.25	.10
296	Heavenly Blue. A giant flower of the Japanese type grown separately on account of its great beauty.	.15

MOON FLOWER.

At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers, 5 to 6 in. in diameter. It grows very rapidly and will cover a large surface. The most rapid grower of any annual in a sunny location.

297	White. (Ipomoea Grandiflora.) $\frac{1}{4}$ oz. 40c	.10
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Plants ready end of May.

Mourning Bride. See Scabiosa.

Musk Plant. See Mimulus.

Myosotis. See Forget-Me-Not.

NASTURTIUMS.

For picking for the house, few flowers can compare with these easily grown annuals. Time was when no garden was without a few, either tall or dwarf, but the appearance of black aphids makes it necessary to have a sprayer and some Nicotine handy. The soil seems to get "sick" when they are grown too often in the same spot

and the results are disappointing. The more nasturtiums are picked the more flowers will come, altho if a few seeds are wanted to pickle and allowed to ripen, no particular harm would be done. The tall kinds are suitable for training up on posts or fences, the dwarf for a border.

NO.		PKT.
298	Superb Hybrid Tall Mixed. A blending of all the various shades. Oz. 25c, $\frac{1}{4}$ lb. 75c	.10
299	Dwarf Mixed. Separate named varieties mixed in proper proportions. Oz. 25c, $\frac{1}{4}$ lb. 75c	.10

NEMOPHILA. (Lovegrove.)
(*Triften oder Hainblume*.)

Neat and compact, with varied and beautiful colors, blooming all summer. Suitable for beds, borders and pot culture. Grow best in a moist, partially-shaded situation and not very rich soil. Annual.

300	Finest Mixed. $\frac{3}{4}$ ft.	.10
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NICOTIANA. (Tabak.) (Sweet Scented Tobacco.)

A graceful garden plant which has the peculiar habit of perfuming the garden every morning and evening. The flowers are tubular, opening to a star at the end. Very attractive when in full bloom. Start in hotbeds in March for early flowers. Set 18 in. each way.

300 $\frac{1}{2}$	Affinis. Pure white.	.10
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NIGELLA. (Love in a Mist.) (Schwarzkuemmel.)

Popular annuals growing about 18 in. high. Slender and pretty cosmos-like foliage. The double rosette-like flowers are nice in the garden as well as for cut-flowers. Sow outside in May.

301	Finest Mixed. Blue and white. 1 ft.	.10
302	Miss Jekyll. Large, corn-flower blue.	.10

OENOTHERA. (Evening Primrose.) (Nachtkerze.)

Beautiful, free-flowering plants, very useful for beds and borders, flowering in long spikes. Common garden loam. Biennial.

303	Biennis. Beautiful clear canary-yellow.	.10
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PANSY

(Heartsease, *Viola Tricolor*.)
(*Stiefmuetterchen*.)

We endeavor to get absolutely the best strains of Pansies grown in France, England and Germany. A perusal of the list will show the choicest varieties, regardless of cost and if proper care is exercised in sowing, the germination will be found to be high. Seed sown in hotbeds or cold frames in February or March will flower better during the fall and winter, while that sown in August or September and wintered over will give better results in spring and summer. On account of the delicate nature of the fancy varieties, extreme care should be used to start the seeds, light, rich soil, made fine with a rake or sieve being important and a covering of newspaper or cheese-cloth until the seeds, which should be only slightly covered with soil, are up, is absolutely necessary to insure a good stand.

If more plants come up than are needed, when they have their fourth or fifth leaf transplant them 3 in. apart each way, taking them as they come, rather than picking out the strongest, as the delicate plants are apt to produce the finest flowers. Protection from the midday sun is necessary to have large

flowers, and keeping them picked will extend the flowering period. A mulching of Sheep Manure twice a month and a dusting of Tobacco Dust as often, will make them grow and keep the insects away.
The Giant flowering only are listed.

NO.		PKT.
304	Trimardeau Mixed. ¼ oz. 75c, oz. \$2.50..	.20
305	Bugnot. Mixed; stained.....	.20
306	Parisian. Mixed; stained.....	.20
307	Masterpiece. Mixed, blotched and curled	.20
308	Cassier's Blotched. Mixed.....	.20
309	Madame Perret. Wine shades.....	.20
310	Pure White .....	.20
311	Imperial Blue. Blue.....	.20
312	Lord Beaconsfield Improved. Purple and white .....	.20
313	Indigo Blue .....	.20
314	Cardinal. Rich red.....	.20
315	Azure Blue .....	.20
316	English Faced. Mixed.....	.20
317	Black. True .....	.20
318	SUPERB MIXED. Our own mixture of all the above large-flowering sorts including the very choicest Pansies grown. It is unsurpassed. ⅛ oz. \$1.00, ¼ oz. \$1.75, oz. \$6.00.....	.20

NO.		PKT.
319	FANCY SELECT. This mixture is our own selection from the above list of all the rarest, high-priced varieties and is intended for the specialist. None of the ordinary colors are included but only the new, rare, unusual shades. ⅛ oz. \$1.75, oz. \$6.00.....	.20
320	English Giants. A collection of the largest and choicest grown in England. ⅛ oz. \$1.25, ¼ oz. \$2.00, oz. \$7.00.....	.25
321	Tufted Pansies. (<i>Viola Cornuta</i> .) Until recently, these have been little appreciated in this country. In France and England they are used extensively for borders, where their masses of bright flowers are charming.....	.20
322	Orchid Flowering. This distinct strain includes all the unusual shades of coloring in Pansies; chamois, terra-cotta, pink, lilac, rose and orange. Medium in size, yet dainty and admired for their charming markings .....	.20

Plants raised from our own stock seed, one dozen in a basket. Ready in May.

PASSION FLOWER.

Few effects are more charming than these blue Passion flowers covering a greenhouse wall with their rich green foliage and sky-blue blossoms.

NO.		PKT.
323	<i>Caerulia Grandiflora.</i> Blue.....	.10

PENTSTEMON. (Fuenffaden, Bartfaden.)

Beautiful and attractive, hardy, herbaceous plants, with long, graceful spikes of richly colored flowers. Succeed in a light loam, and should have a dry situation, as they suffer more from wet than cold during the winter.

324	Hybrid Extra Mixed. Fine large flowered strain. Perennial. 2 ft.....	.10
325	Gloxiniodes, "Sensation." As a bedding plant this takes rank with the <i>Petunia</i> , <i>Phlox</i> , etc., etc. It grows about 2 feet high, every branch being a spike of large, trumpet-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc. Not quite hardy and best treated like <i>Petunias</i> , <i>Verbenas</i> , <i>Salvia</i> , etc. ....	.10

SINGLE PETUNIA. (*Petunie*.)

For outdoor decoration or house culture few plants equal the *Petunia* in effectiveness. They commence flowering early and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position.

326	Giant Ruffled. Coppery red. An attractive new shade.....	.25
327	Mixed Giant Ruffled. Flowers of unusual size and substance, ruffled and fringed in most beautiful colors; half dwarf. Trade pkt. \$1.00.....	.50
328	California Giants. Magnificent strain of immense flowers in many shades, all with veined throats.....	.50
329	Rosy Morn. A soft carmine pink with white throat; grows bushy, 8 inches high and makes an effective border.....	.10
330	Elk's Pride. Best strain of blackish purple with plain edge.....	.25
331	Extra Choice Mixed Hybrid. Excels for mass planting, in brilliancy and continuous flowering. ⅛ oz. 25c, oz. \$1.75....	.10

Single Fringed Type

These are intended for hanging baskets and window boxes to hang over the sides. Large flowers in clear, rich, solid colors.

332	Pride of Portland. Deep rose.....	.20
333	Scarlet Beauty .....	.20
334	White Beauty .....	.20
334½	Pink Beauty .....	.20



DOUBLE PETUNIA.

It is, perhaps, not generally understood by the buying public that seed of the double sorts are only obtained by artificially fecundating single blooms with the pollen from the double. This makes the seed necessarily high priced. In spite of all possible care only a small percentage will produce double flowers, but the singles are of an unusually fine quality. The finest doubles are always grown from seed; when propagated from cuttings they degenerate.

The weaker seedlings should be carefully saved, as these invariably produce the finest double blooms. The same is true of the single sorts, the large strong seedlings usually being weedy, while the, at first, least promising ones produce the very finest flowers of the best colorings.

It is always best to sow *Petunias* indoors and transplant to the open in May.

NO.		PKT.
335	Double Mixed Fringed. Extra fringed, blotched and striped, fecundated with double of the best strain. ½ pkt. 25c....	.50

Plants ready in May.



PHLOX DRUMMONDII GRANDIFLORA.
(Flammenblume.)

The Phloxes are the showiest and most easily raised of all Annuals. We know of nothing which produces such a continuous supply of the most attractive flowers in a most wonderful range of colors. All the tints of the rainbow are represented with all possible variations of stripes, veins and eyes of contrasting shades. Seed should be sown in the ground as soon as danger of frost is over and in a few weeks the beds are a blaze of glory. May be grown in beds or borders, boxes or vases and make splendid cutting material as the blooms last long in water. 1 ft.

NO.		PKT.
336	Pure White..	.10
338	Bright Pink..	.10
340	Bright Rose, White Center.....	.10
341	Flesh Color, Purple Center.....	.10
342	Isabellina. Yellowish .....	.10
343	Star Phlox Mixed. A novel star-shaped flower of the prettiest colors.....	.10
344	SUPERB MIXED. Our own splendid mixture of above separate colors and kinds, insuring some of every color in each packet. ¼ oz. 75c, oz. \$2.50.....	.10

PERENNIAL PHLOX. (P. Decussata.)

Hardy herbaceous perennial and quite distinct from the varieties of Phlox Drummondii offered above, which are annuals. For best results sow as soon as frost is out of the ground in spring or as soon as gathered in the autumn. The seed we send out has been saved from a choice collection and is supplied in mixture only.

345	Choice Mixed. Brilliant colors; 2½ ft....	.15
346	Hybrid Dwarf Mixed. Fine, large flowers .....	.20

A very fine collection of choicest varieties of plants ready in April.

Platycodon. See Campanula.

Polyanthus. See Primula.

PHYSALIS. (Chinese Lantern Plant.)

A hardy perennial that has become very popular for the orange colored seed capsules that dry and retain their bright color all through the winter. It is wise to set out the roots where they can be kept within bounds or they will take possession and become a nuisance. The "lanterns" will be increased in number and size if the plants are fed a little Nitrate of Potash two or three times the fore part of the summer. Watch out for potato bugs.

347	Francheti10
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Roots ready in April.

POPPY. (Papaver.) (Mohn.)

Annual Poppies should be sown as early in the spring as possible where they are to remain, as they do not stand transplanting. Sow very thinly, preferably in cloudy weather or after a shower, barely cover the seed, press down firmly, and they will come up in a few days. If they come up too thickly they must be thinned out to stand 3 or 4 in. or more apart if you wish best results. It is well to make several sowings at in-



Carnation Poppies

tervals to keep up a succession of bloom. If picked just before expanding the flowers will last several days. It is also advisable to pick the old flowers as soon as fallen, which will lengthen the blooming season quite a while.

NO.		PKT.
348	Carnation Double Scarlet. Splendid double fringed flowers of the brightest scarlet. ¼ oz. 15c.....	.10
349	Large Flowered Carnation Mixed. Beautiful colors of largest size double and full. ¼ oz. 10c, oz. 30c.....	.10
350	Paeony-Flowered. Showy flowers of a globular form, resembling full-blown Paeonies. Handsome colors.....	.10
351	Shirley, Extra Mixed. Annual; a most beautiful semi-double variety; does well in any garden and embraces a great variety of colors, ranging from pure white, through many delicate shades of pink, to bright red. If cut before the sun strikes them they will keep a day in water. ½ oz. 15c, ¼ oz. 25c, oz. 75c.....	.10

HARDY PERENNIAL POPPIES.

Oriental Poppies should be sown in early spring in the open ground as soon as it is fit to work. The plants disappear during July or August, appearing again as soon as the weather gets cool. It is well to mark the places they are planted with a stake to insure the roots against disturbance during their annual resting period.

352	Bracteatum. A very large orange-scarlet flower, averaging 5 in. in diameter; perennial; 3 ft.....	.10
353	Orientele, Victoria. Bright salmon with black blotch on each petal.....	.15
354	Orientele, Hybrid Mixed. Many brilliant colors and odd shades; flowers of large size .....	.15
355	Iceland. Hardy, flowering the first year from seed, blooming almost as quickly as the annual sorts. They are of graceful, neat habit, with bright green, fern-like foliage, 12 in. high, bearing their brilliant white, yellow and orange flowers in endless profusion; most useful for cutting .....	.10

Plants ready in May.

California Poppy. See Eschscholtzia.

PORTULACA. (Portulak.) (Irish Moss.)

Too much cannot be said in praise of this popular and handsome annual which produces a perfect carpet in a remarkably short time. Succeeds best in an exposed, sunny location and flourishes in dry and very shallow soil. It is of a creeping nature with moss-like foliage, which from early summer until frost is hidden by the brilliant rose-like flowers that open wide in the morning and close in the evening. Because of its foliage it is frequently known as Irish Moss or Moss Rose. It is well to mix the seed with three or four times its bulk of dry sand or soil which permits an even and easy distribution of the seed. It may safely be sown the latter part of April.

NO.		PKT.
356	SUPERB MIXED. Our own mixture of the finest separate colors and unsurpassed for brilliancy and size. $\frac{1}{8}$ oz. 20c, oz. \$1.00 .....	.10
357	White .....	.10
359	Yellow .....	.10
361	Pink .....	.10
363	Double Mixed. Saved from the best varieties and colors and producing a large percentage of double flowers. $\frac{1}{4}$ oz. \$1.00 .....	.15

Pot Marigold. See Calendula.

PRIMULA. (Primrose.) (Primel.)**Greenhouse Kinds.**

The charming and beautiful Chinese and Obconica Primroses are indispensable for winter and spring decorations in the home or conservatory. They are of the easiest culture in the greenhouse or light window of the living-room, flowering abundantly and continuously with little care. Press the seed in lightly to barely cover. To develop the best flowers and most brilliant colors grow in a heavy soil and as near 60 degrees as possible.

364	Chinese Fringed Mixed. The finest, large-flowering sorts of all colors.....	.50
365	Obconica Grandiflora, Apple Blossom Pink. A beautiful soft pink of very large size .....	.25
366	Obconica Grandiflora Mixed. A choice strain of the freest-flowering type.....	.25

PRIMULA. (Primrose.)**Hardy Kinds.**

367	Perennial Hybrid Large Flowering. Splendid mixed. Similar to the English Primrose, but with much larger flowers and innumerable color variations. They bloom with the crocuses and continue for 6 weeks. Splendid for rock gardens and edging. May be divided after they are through flowering.....	.20
368	Perennial Hybrid Golden Yellow. Separate color of the preceding type.....	.25

Plants ready in April.

PYRETHRUM.

From a massive tuft of lace-like foliage numbers of straight, leafless stalks grow 18 in. high crowned with daisy-like flowers. Favorite perennials which bloom the first season from seed if started very early. Remove the flower-stalks after blooming for a second crop in the fall.

369	Roseum. Daisy-like in white, pink, rose and crimson shades, and yellow centers, One of the most graceful outflowers.....	.15
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Plants ready in May.

Reseda. See Mignonette.

RICINUS. (Castor Oil Bean.) (Wunderbaum.)

Tall growing and highly ornamental plants, with beautiful foliage and brilliant-colored fruit. If planted singly on lawns they produce a fine effect. Annual.

Ricinus of any sort, $\frac{1}{2}$ oz. 15c, oz. 25c.

370	Major. Dark-green foliage; 10 ft. ....	.10
371	Sanguineus. Blood-red stems and fruit, green leaves; 7 ft. ....	.10
372	Cambodgensis. Leaves maroon; stems black; 5 ft.; very beautiful. ....	.10
373	Gibsoni. Dark purple-red foliage; 5 ft. ....	.10
374	Minor. Dwarf, with rose-colored fruit; 4 ft. ....	.10
375	Zanzibariensis. Immense leaves of the most handsome colors which present a beautiful pyramid of foliage thickly set from the bottom up; 10 to 12 ft. ....	.10



Ricinus or Castor Oil Bean

RUDBECKIA. (Cone Flower.)

NO.		PKT.
376	Newmani. One of the finest of autumn-flowering perennials, bearing large flowers of bright orange-yellow petals, surrounding a large black cone; a showy flower .....	.10

**SALPIGLOSSIS. (Trompetenzunge.)****(Painted Tongue.)**

These showy half-hardy annuals bear beautiful funnel-shaped flowers having dark veins on a ground which varies from white to crimson, orange, yellow, etc., almost orchid-like in appearance. Closely allied to the Petunias, but grow erect, producing an abundance of bloom from late summer until frost. The seed is very fine and should be sown carefully and sparingly as the plants are not readily transplanted. They thrive in a light, rich, sandy loam and will respond to liberal treatment. 2 ft.

377	Scarlet on gold background.....	.10
378	Violet. Self color.....	.10
379	Purple on gold background.....	.10
380	Dark Red. Self color.....	.10
381	Light Blue on gold background.....	.10
382	White and Yellow.....	.10
383	Emperor Finest Mixed. All the above and as many more other shades. $\frac{1}{8}$ oz. 30c, $\frac{1}{4}$ oz. 50c.....	.10

SALVIA. (Salbei.)

Scarlet Sage.

By far the most brilliant bedding plant we can have. The seeds should be started in the hot-bed or house in February or March and the plants set out middle of May, 15 or 18 inches apart in soil as rich as it can be made. After that they require very little care. If the spikes are cut off as soon as they have bloomed the plants will continue to blossom until frost.

NO.		PKT.
384	Improved America. Our finest strain of tall. Very early and continuous bloomer. $\frac{1}{4}$ oz. \$1.50.....	.25
385	Fireball. Bushy, compact growth; 2 ft. $\frac{1}{4}$ oz. 75c.....	.15
386	Splendens. Spikes shorter than "America" and does not grow as tall; 30 in. $\frac{1}{4}$ oz. 75c.....	.10
387	Zurich. Fine, dwarf, large flowering sort, growing 15 to 18 inches high. $\frac{1}{4}$ oz. \$1.50 .....	.20

Potted Plants ready in May.

SAPONARIA. (Soapwort.)
(Bouncing Bet.)

388	Vaccaria. A pretty annual with masses of satiny pink flowers. Must be sown three or four times if flowers are wanted throughout the season.....	.10
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SCABIOSA. (Mourning Bride.)
(Scabiose.)

The erect $2\frac{1}{2}$ ft. stems terminate in handsome flat, very double flowers with tubular petals from which yellow stamens protrude to resemble pins. The blooms are so abundant from July until frost and last so well when cut that this is one of the most popular garden flowers. Sow any time when danger of frost is over in good loam.

Annual Varieties.

389	King of the Blacks. Fine deep purple..	.10
390	White .....	.10
391	Azure Fairy ..	.10
392	Fiery Scarlet ..	.10
393	Yellow .....	.10
394	Choice Mixed ..	.10
395	Shasta. New strain of giant flowering white, 3 inches in diameter. $\frac{1}{8}$ oz. 75c..	.15
396	Peach Blossom. Giant flowering pink, 2 inches in diameter, on fine long stems. $\frac{1}{8}$ oz. 75c.....	.15

Perennial Variety.

398	Caucasica. (Blue Bonnet.) Lilac-blue; good cut-flower; 3 ft.....	.15
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Plants ready in April.

SCHIZANTHUS. (Spaltblume.)
(Poor Man's Orchid.)

This is one of the airiest and daintiest flowers imaginable, especially adapted to bordering beds of taller flowers and those of a heavier growth. The seeds germinate quickly and come into bloom in a few weeks from sowing. The florescence is such as to completely obscure the foliage, making the plants a veritable pyramid of the most delicate and charming bloom. The Schizanthus make admirable pot plants for the house in late winter and early spring. For this purpose sow in autumn.

399	Dr. Badger's Giant Hybrids. Tall growing type with very large flowers. All colors mixed15
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Sensitive Plant. See Mimosa.

Snapdragon. See Antirrhinum.

Snow-on-the-Mountain. See Euphorbia.

Spider Plant. See Cleome.

STATICE. (Sea Lavender.)

A perennial producing masses of small flowers that may be dried and used for winter bouquets.

400	Sinuata Mixed. White, yellow, blue and mauve mixed together.....	.10
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STOCKS. (Gilliflower.)
(Levkoyen.)

The charming colors, delightful fragrance, and free blooming character of the stocks have made them favorite plants for both summer and winter cultivation. They are very effective for beds and borders, and their handsome flower spikes are invaluable for bouquets and floral decorations. The large-flowering Ten-week section is the earliest to bloom. For succession sow the Cut-and-Come-Again varieties, which bloom abundantly until frost. 1 ft.



Stocks

Double Large Flowering Ten-Weeks.
Dwarf German.

NO.		PKT.
401	Blood Red ...	.10
402	Light Blue ...	.10
403	Carmine Pink ..	.10
404	Dark Blue ...	.10
405	Deep Rose ...	.10
406	Canary Yellow ..	.10
407	Pure White .....	.10
408	Finest Mixed. $\frac{1}{8}$ oz. 75c, $\frac{1}{4}$ oz. \$1.25....	.10

Early Giant Imperial.

Branching habit; 2 to $2\frac{1}{2}$ ft.

409	Fiery Red .....	.15
410	Canary Yellow ..	.15
411	Flesh Pink ...	.15
412	Lavender ....	.15
413	Rose Pink ...	.15
414	Pure White ..	.15
415	Finest Mixed. $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.75..	.15

Dresden Perpetual.

(Cut-and-Come-Again.)

416	Brilliant Red ..	.15
417	Creole Yellow ..	.15
418	Deep Rose ...	.15
419	May Queen, Blue .....	.15

420	Princess Alice. Pure white.....	.15
421	Finest Mixed. $\frac{1}{8}$ oz. \$1.00, $\frac{1}{4}$ oz. \$1.75..	.15

Summer Cypress. See Kochia.



Miniature Sunflower

SUNFLOWER. (Helianthus.)
(Sonnenblume.)

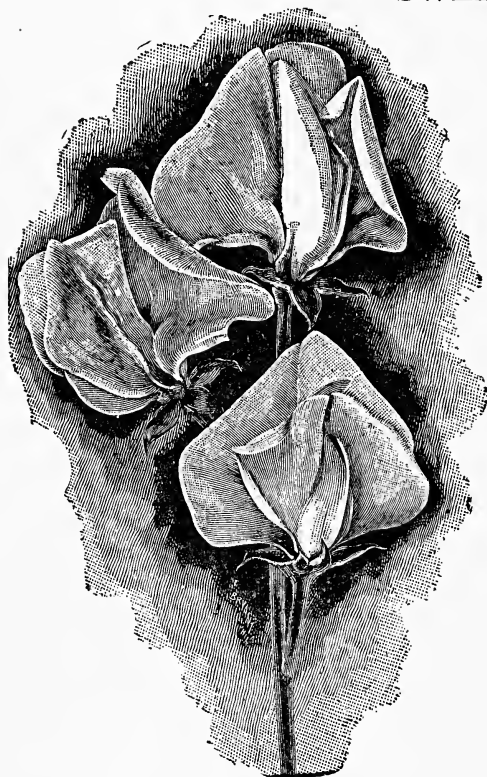
The larger varieties are useful in forming backgrounds of large beds or borders and for distant effects, while the smaller sorts may be planted with scarlet salvia, cannas and other tall bedding plants, also furnishing good cutting material. Hardy annuals.

422	Globe Flowered. Double globe or dahlia-like flowers of a rich saffron yellow. 7 ft. $\frac{1}{4}$ oz. 15c.....	.10
423	Californian. Double dark yellow. 5 ft. $\frac{1}{4}$ oz. 15c.....	.10
424	Double Dwarf. Large, handsome golden-yellow flowers. 4 ft. $\frac{1}{4}$ oz. 15c, oz. 30c .....	.10
425	Miniature. (H. Cucumerifolius.) Identical in appearance with our common yellow Field Daisy. The dainty golden-	

NO.		PKT.
	yellow flowers are borne in profusion on long stems, which with the foliage make ideal subjects for vases and jardiniere in the house. Will grow in any soil; 2 to 3 ft. 1/4 oz. 25c.....	.10
426	Perkeo. A dwarf form of the preceding, growing 12 inches high.....	.10

NO.		PKT.
427	Purpureus. The new Red Sunflower. Does not come true but can be told by the red stem; green stemmed plants will have yellow flowers.....	.10
428	Single Russian. The tallest common sunflower. 1 oz. 15c.....	.10

SWEET PEAS



Sweet Peas

Price for all except those marked thus * are 10c per packet, 40c per ounce, 1/4 lb. for \$1.25. Those marked thus * are 15c per packet, \$1.00 per ounce.

Giant Flowering Late Spencers.

NO.		PKT.
429	America. Red Flake, white ground.	
430	Asta Ohn. Pinkish lavender.	
431	Blanche Ferry. Pink and white.	
432	Campfire. Bright scarlet.	
433	Carmelita. Rose pink on white ground.	
434	Crimson King. Rich deep crimson.	
435	Constance Hinton. Giant pure white.	
436	Daffodil. Deep crimson.	
437	Defiance. Glowing orange-scarlet.	
438	Del Monte. Salmon cerise pink.	
439	Fiery Cross. Bright red orange-cerise.	
440	Fortune. Rich dark blue.	
441	Hawlmarm Lavender. Clear light lavender.	
442	Hawlmarm Scarlet.	
443	Heavenly Blue. Delphinium blue.	
444	Hebe. Large bright pink.	
445	Illuminator. Salmon orange, overlaid cerise.	
446	Ivory Picture. Ivory cream.	

Modern culture of Sweet Peas has produced so many beautiful colors and such large flowers that they are almost indispensable. That these fine new varieties are harder to grow, goes without saying, for with many people success seems to be the exception.

We made a canvass among our customers and have come to the conclusion that poor soil causes most of the failures and the unfavorable place they were sown and the wrong method of cultivation caused the rest.

Sweet Peas need rich soil—the richer the better—and it should be rich to a depth of at least one foot. Raw Bone Meal, a pound to three feet of row, is the best fertilizer, especially in heavy soil. Sheep manure comes next, and old cow manure and rotted horse manure follow, but fresh horse manure should never be used and in no case should any fertilizer come into direct contact with the seed, especially if the fertilizer is fresh.

In clay soil, three or four inches is a sufficient depth to sow the seed and in light soils six or eight inches will be better. Some people advise sowing the seed in a trench and filling in the soil as the plants grow, but this sometimes smothers the plants. Others advise covering the seeds to the proper depth at once and treading the soil down firmly. The latter method will take the seed longer to grow, so that early sowing is necessary if early flowers are wanted. By this method successive sowings may be made so that flowers may be had until frost.

Better results are obtained by having the vines away from walls and tight fences, as the plants seem to require air.

If the soil is frequently stirred and watered too often, rank vines are obtained, but at the expense of flowers. It is therefore better to only pull the weeds and stir the soil but little. If the vines are allowed to go to seed they soon cease blooming.

A mulch of lawn trimmings or similar material laid about the plants keeps the soil moist and cool and also checks the growth of weeds.

If the seed is treated with Sweet Pea Bacteria there will be an increase in size of flower and a more extended blooming season.

Our grower in California has recommended the following list as being the best of the 150 kinds he grows.

NO.		PKT.
447	Mary Pickford. Dainty cream pink, suffused salmon.	
448	Mermaid. Rich true lavender.	
449	Miss California. Orange salmon, cream pink.	
450	Powerscourt. Fine lavender.	
451	Royal Purple. Rich purple.	
452	Royal Salute. Scarlet cerise.	
453	Snowball. Dazzling white.	
454	Tangerine. Orange.	
455	Warrior. Giant maroon.	
456	What Joy. Cream.	
457	Youth. Large white, pink picotee.	
458	Superb Mixed Giant Flowering Spencers. To the best mixture we are able to buy, we add some of each of the above list. Per pkt. 10c, per ounce 35c, 1/4 lb. \$1.00, pound \$3.00.	

DWARF SWEET PEAS.

459	Cupids Mixed. These grow six inches high and make compact bushes, suitable for a border. Pkt. 10c, oz. 15c, 1/4 lb. 40c.	
	Hardy Sweet Peas. See Lathyrus.	

SWEET ROCKET. (Nachtviola.)
(*Hesperis Matronalis.*)

Showy hardy perennials growing two or more feet high and bearing spikes of fragrant flowers that will continue in bloom for several weeks if not permitted to go to seed.

NO.		PKT.
470	Purple. (Dame's Violet).....	.10
471	Pure White .....	.10
472	Fine Mixed .....	.10

SWEET SULTANS. (Centaurea Moschata.)

Undoubtedly the finest of all Centaureas for cut flower purposes. The beautiful sweet-scented, artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. It is best, in this latitude, to sow very early in the spring, so that they may perfect their flowers before very hot weather comes.

473	Americana (Basket Flower). A splendid native variety, 3 ft. high, bearing immense thistle-like blooms of a rosy-lavender color. Very showy in the mixed border and splendid for cutting. ¼ oz. 45c .....	.10
474	Suaveolens (Grecian Cornflower). Very showy, large, bright yellow flowers; sweetly scented and a popular sort for cutting, lasting well.....	.10
475	Imperial Mixed. Colors white and shades of pink, lilac and purple; flowers large and numerous. ¼ oz. 45c.....	.10



SWEET WILLIAM. (Dianthus Barbatus.)
(*Bartnelke.*)

Attractive, free-flowering hardy perennials usually classed as Dianthus with China Pinks, but are different from them in not blooming until the second year. In beds and borders they will produce a splendid effect in their rich, velvety flowers of many colors. They are of easy culture and profuse bloomers, appearing so early in the season that they fully repay for time and effort spent upon them. It is much better to raise new, vigorous young plants from seed every season than to divide the old plants.

476	Pink Beauty. Striking salmon-pink....	.10
477	Scarlet Beauty. Bright scarlet.....	.10
478	Dark Crimson. Rich dark shade.....	.10
479	Giant Auricula-Eyed. Various colors with well-defined eyes .....	.10
480	Finest Single Mixed. All colors. ¼ oz. 50c .....	.10
<i>Plants ready in May.</i>		
481	Double Mixed. A choice blend. ¼ oz. 60c .....	.10



THUNBERGIA. (Thunbergia.)
(*Black-eyed Susan.*)

Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively in hanging-baskets and vases. Very pretty flowers in buff, white, orange, etc., with dark eyes; mixed colors; 4 ft.

NO.		PKT.
482	Finest Mixed .....	.10

TORENIA.

Beautiful, free-flowering plants; suitable for pot-culture in house or conservatory. They also succeed well in a moist, shady border, during the summer months, and, for baskets and vases, are unsurpassed. Light, rich loam. Tender perennial.

483	Fournieri. Azure blue, with three dark blue spots and bright yellow throat....	.10
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TRITOMA. (Red Hot Poker.)

Hardy perennial producing long stalks of gorgeous flowers that become the most conspicuous things in the garden. From seed the roots produce flowers the second year. Unless protected from the severe winter weather, it is advisable to dig and store them as Dahlias are.

484	Stark's Perpetual. Many shades of yellow, salmon and crimson.....	.20
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VALERIANA. (Valerian.)
(*Hardy Garden Heliotrope.*)

Showy border plants with large heads of sweetly fragrant flowers of pinkish-white during June and July.

485	Officinalis. Strong heliotrope odor. 3 to 4 ft.....	.10
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VERBENA. (Eisenkraut.)

This well-known and popular annual of a low procumbent habit is very desirable for massing in beds, for borders, window boxes and hanging baskets. Large clusters of brilliant flowers are borne in profusion from the early summer until frost. The shades run from snow-white to deep purple, including eyed-sorts and striped varieties. They lend themselves readily for bouquets. Sown in the open in May, the seed will produce flowering plants by August, but the season may well be prolonged by starting indoors and transplanting after danger of frost is over. Soak the seed before planting. A light turfy loam is best. The mammoth-flowering strain we offer has trusses and individual flowers of the largest size.

486	Blue Shades. ..	.10	487	Pink Shades. ..	.10
488	Pure White. ..	.10	489	Defiance,scarlet ..	.10
490	Striped Varieties, all colors.....	.10			
491	Auricula-Flowered Hybrids, finest colors, large eyes.....	.10			
492	SUPERB MAMMOTH MIXED. Our own blend of very choicest stock of separate colors. ¼ oz. 30c.....	.10			
493	Lemon Verbena. (Aloysia Citrifodora.) An old favorite, with fragrant evergreen leaves, suitable for garden culture or for pot plants during the winter. The leaves are often dried and placed among linens ..	.10			

Plants ready in May.

VERONICA. (Speedwell.)

Hardy perennial with spikes of flowers in various colors, mostly shades of blue, in varying heights.

494	Spicata Very Fine Mixed. Blue, white and pink; 1½ ft.....	.15
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VINCA. (Sinngruen.)
(Madagascar Periwinkle or Old Maid.)

Beautiful free-flowering plants, with handsome blossoms. Seed should be sown early inside and transplanted into the border in May or June, where they will give fine blooms through the summer and autumn. Light, rich soil.

NO. PKT.
495 Pure White.. .10 496 Rose Pink10
497 Mixed Varieties. Four sorts. ½ oz. 35c .10

Bedding Plants ready in May.

VIOLET. (Viola Odorata.)

Well-known hardy plants with single deep blue flowers of delightful fragrance. Used extensively for winter in the greenhouse. Good also in the rock garden.

498 *Odorata Perpetual.* Sweet scented, deep blue10

Violas. See under Pansies.



WALLFLOWER. (Cheiranthus cheiri.)
(Gelbveil oder Goldlack.)

These fragrant flowers should be better known. Their adaptability for outdoor growth and for pot-culture should win favor here as in Europe, where they are very popular. The oriental coloring of the blooms in their rich reds and yellows is very effective. Succeed best in light, rich soil in a moist atmosphere. Sow the seed early in a hot-bed and transplant. On the approach of cold weather pot and grow in the house to flower all winter. Tender perennial. 2 ft.

NO. PKT.
499 Extra Double Finest Mixed. 2 ft..... .15
500 Early Flowering Single Mixed..... .10

XERANTHEMUM. (Everlasting.)

Handsome double everlasting flowers easily dried and used for winter bouquets. Annual.

501 *Annum Mixed.* White, pink and purple; 18 in. ¼ oz. 30c..... .10

ZINNIA

With seed supplies cut off from the usual sources during the late war, the world turned to California to fill the gap. The result brought us, among other things, the modern Zinnia. Not only have they been greatly increased in size of flower but also in color range until we now have more than a dozen. Not only that, but new forms have been developed so that the Zinnia now ranks as one of the two or three most popular and widely sown flowers grown. That all these improvements have been made without sacrificing vigor and sturdiness of the plants is gratifying because there is hardly another plant that will flower so well under adverse conditions. The separate colors enable our friends to work out almost any color scheme in the garden, an art in garden-making that adds greatly to the pleasure of the effort.

California Giant Double.

503 Scarlet ..... .15	504 White ..... .15
505 Crimson ..... .15	506 Canary Yellow ..... .15
507 Shrimp Pink. .... .15	508 Golden Yellow ..... .15
509 Salmon Rose. .... .15	510 Apricot ..... .15
511 Deep Rose ... .15	512 Special Mixed ..... .15

Any of above, ¼ oz. 60c.

Giant Dahlia Flowered Type.

513 Exquisite. Light rose; deep rose center ..... .20	
514 Golden State. Rich orange yellow..... .20	
515 Crimson Monarch. Largest and best red ..... .20	
516 Meteor. Deep red..... .20	
517 Oriole. Orange and gold..... .20	
518 Dream. Deep lavender turning to purple ..... .20	
519 Canary Bird. Delicate primrose..... .20	
520 Polar Bear. Pure white..... .20	
521 Gold Medal Mixture. ½ oz. 75c..... .20	

Giant Mammoth Type.

522 Enchantress. Light rose..... .20	
523 Lemon Queen ..... .20	
524 Orange King. Burnt orange..... .20	
525 Rose Queen. Bright rose..... .20	
526 Scarlet Gem ..... .20	
527 Finest Mixed. ½ oz. 50c..... .20	

Lilliput Type.

Blossoms an inch in diameter; plants 8 inches high.

528 Finest Mixed. ½ oz. 15c..... .10	
529 Red Riding Hood. Scarlet..... .10	

Picotee Type.

Comes in many colors, the petals of each color edged with a darker shade.

530 Finest Mixed15	
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Bulbs, Roots and Plants

BEGONIAS. (Tuberous Rooted.) May be grown in partial shade or in the full sunlight if kept moist, may be planted out of doors latter part of May. They bloom continually from July until frost and produce a gorgeous effect. Single Pink, Apricot, Scarlet, Crimson, White and Yellow..... \$.25 \$2.50 Doz.

CALADIUM. ESCULENTUM

Commonly called Elephant's Ears. One of the most beautiful and ornamental foliage plants. Will grow to immense size if well taken care of. Small bulbs (for bedding), each 15c; Medium bulbs, each 25c; Large bulbs, each 35c.

EVER-BLOOMING FRENCH CANNAS—(Started Plants)

City of Portland. Strong growing, deep pink. Stalk grows 3½ feet in height .	\$.30	\$3.00
Hungaria. The new rose-pink. Stalks 3½ to 4 feet.....	.25	2.50
Apricot. A rich apricot. 4 ft.....	.20	2.00
King Humbert. Orange-scarlet streaked with crimson. Height 4½ to 5 feet.		
Per hundred \$12.00.....	.20	2.00
Queen Helen. (Yellow King Humbert.) A sport of the preceding with green leaves and rich deep yellow flowers. 4½ feet.....	.25	2.50
Statue of Liberty. Bronze foliage and large orange-scarlet flowers. 6 ft.....	.30	3.00
The President. Glowing scarlet canna, does not fade in the sun; height 4 feet...	.30	3.00
The Ambassador. Fiery scarlet flowers, darkly veined bronze leaves; height 4 feet. (Bronze Leaved President).....	.30	3.00
Beaute Poitevine. Crimson-scarlet, spotted darker. 3½ feet.....	.20	2.00
Richard Wallace. Pure unfading Canary in color. 5 feet.....	.25	2.50
Eureka. The best pure white; robust grower. 4 feet.....	.35	3.50
Golden Wedding. Rich golden yellow, large trusses; 3 feet.....	.35	3.50

DAHLIAS

Chief among the newer of these is the Cactus type with long and twisted petals, which is a radical departure from the old-fashioned "Show" Dahlia with each petal set in its place. Then there are Decorative and Fancy Dahlias with reflex petals. Pompon Dahlias, which have small ball-shaped flowers, Single Dahlias in many beautiful colors and the tall-growing, loose-petaled type with its big fluffy blooms. We submit below a list of the very finest Dahlias that are now cultivated. These are so widely different from the common garden Dahlias of a few years ago that they will scarcely be recognized as belonging to the same group of flowers.

CACTUS DAHLIAS

Characterized by long, narrow, pointed, tubular and twisted petals.

	Each
Attraction. The flowers are soft silvery mauve rose with white suffusion.....	\$.40
Betty Austin. Yellow at base, blending to rosy carmine.....	.40
General Pershing. Creamy White Hybrid. Profuse Bloomer.....	.50
Mount Shasta. Shell pink shading to light yellow in the center and darker at the tips.	.50
Joppa. Monster flowers; dark salmon-rose, combined with apricot and golden yellow; strong stems .....	.75
Sulphurea. Petals of soft sulphur yellow, recurve to the stem making the flower look like a chrysanthemum.....	.50
Thais. White with delicate shadings of violet-mauve. Very attractive.....	.50
Gladys Sherwood. Pure White; Immense Size.....	.75
George Walters. A very large soft coral pink bloom suffused with gold.....	.40
Marguerite Bouchon. Lavender Pink, White tipped.....	.50
Mrs. Edna Spencer. Lavender or orchid pink with lighter shadings.....	.50
Pink Pearl. Lilac pink with lighter tips.....	.25
Pink Profusion. Bright pink, shading slightly to flesh at the center.....	.50
Sweet Heart. Pure White; fine keeping qualities.....	.40
Cigarette. Giant flowers on strong stems; cream ground edge with pomegranite red..	.75
Warren S. Seipp. Spectrum red, shading to carmine towards center.....	.60
Golden Gate. Pure gold; petals twisted and curled; free bloomer.....	.30
Ephraim Gill. Giant flowers on strong stems; amber, suffused orange scarlet.....	.75

SHOW DAHLIAS

This type is the most formal and perfect in shape; composed of short, stiff quills. They make excellent compact bouquets and usually outlast the other types.

	Each
A. D. Livoni. Warm rose-pink.....	\$.15
Jean Kerr. Very large, pure white flowers.....	.40
Miss Helen Hollis. Fine, large red with quilled petals.....	.35
Mrs. Hartong. Soft bronzy buff.....	.25
Princess Victoria. Yellow variety of perfect form.....	.30
Tillamook. Immense quilled flowers of delicate blush-pink.....	.40

DECORATIVE DAHLIAS

	Each
Amun Ra. A giant blossom on extra long upright stem. Soft melon pink, with surface of gold, bronze center.....	\$.60
Al Koran. Goldenrod yellow suffused amber on older petals; giant flower on long, strong stems.....	1.00
The Emperor. Velvety maroon; wonderful flowers on strong stems.....	1.25
Mount Vernon. Good size fine, pure yellow; one of the best yellows in this class.....	1.25
Jersey Beauty. Clear pink; flowers of perfect form; good keeper; stems long; early to bloom.....	.75
Marcella Gill. Beautiful clear, soft pink; long, strong stems; early and free flowering and fine keeper.....	.40
Oregon Beauty. Large flowers of intense oriental red, with golden sheen suffused with garnet; long stems.....	.25
Fraternity. Delicate buff toned lavender pink; ideal cut flower.....	.75
Hazel Wilton. Rich saturnine red suffused with orange; strong stems.....	1.25
Hortulanus Fiet. Color is lilac-rose, the petals shade from golden yellow at base to pale lilac at tips. Colossal size.....	.25
Isabel Street. Large flowers, on long, stiff stems. At the base the petals are bright yellow shading to deep rose.....	.75
Jane Selby. Immense, pure pink flowers standing well above the foliage.....	.50
Joan of Arc. Beautiful pink with violet and lilac combination; large, free flowering....	1.00
Judge Marean. Large flowers of blended pink, gold and orange.....	.60
King of Commerce. Color yellow, with a red swarthinness at center. Medium size....	.40
Insulinde. Very large orange buff, overlaid with a golden sheen.....	.50
Mrs. Carl Selbach. Immense bloom of a lovely mauve pink lighter at the center.....	.30
Mrs. I. de Ver Warner. Flowers of large size. Color is deep mauve pink.....	.75
Patrick O'Mara. Pleasing shade of orange buff, slightly tinged rose.....	.40
Paul Michael. One of the largest dahlias to date. Color pure gold, shaded orange-buff.	.75
Pride of California. Very large flowers of bright crimson, with darker centers.....	.25

PEONY DECORATIVE DAHLIAS

The flowers are very large, and are best compared to the semi-double Peonies in general form.

	Each
Aurore. Very large orange and apricot.....	\$.50
Billionaire. Immense flowers of a beautiful shade of golden orange.....	.50
City of Portland. Clear Canary Yellow.....	.75
John Wanamaker. Large lavender pink.....	.30
King of Autumn. Color old gold shaded lighter toward tips of petals.....	.50
Princess May. Canary yellow overlaid crimson or bronze; good stem.....	1.00
Queen Elizabeth. Large flowers of a beautiful rosy mauve.....	.40
Queen Esther. Enormous, full flowers of Du-Barry Red.....	.75
Autumn Gold. Beautiful blending of bronze and buff.....	.30
Jas. C. Gill. Very large blooms of a striking golden-orange on extra strong stems....	.50

GLADIOLI

Gladioli should be planted at intervals of ten days from the time the ground can be worked (about April 15th) until July 15th. If this is done the gardener can be assured of a continuous mass of bloom from July until frost.

The following varieties were selected to give a wide range of the choicest coloring, form and size. Every sort listed here was chosen for its individuality.

	Each	Doz.	Per 100
Anna Eberius. Dark velvety purple with darker throat.....	\$.10	\$1.00	\$7.50
Berty Snow. Light lavender orchid color, giant blooms on tall sturdy stems. One of the best in this color.....	.75	7.50	....
A. W. Hunt. Flaming orange red; large, wide open flowers on strong, sturdy stems that grow to a medium height.....	.15	1.50	10.00
Captain Boynton. Large flowers of lavender, with darker spot on lower petals .....	.15	1.50	10.00
Red Canna. Large scarlet blooms. One of the tallest Gladioli.....	.10	1.00	7.50
Ethelyn. Fine orange yellow of great substance; good cut-flower variety .....	.15	1.50	10.00
Giant Nymph. Light rose pink, with creamy yellow throat; very large, wide open flowers, well arranged on stems growing 6 feet tall. First size bulbs.....	.10	1.00	7.50
Golden Dream. Pure golden yellow; large spikes and flowers like Golden Measure but a clearer and better color. Destined to lead in this color for cut-flowers.....	.20	2.00	15.00
Golden Measure. Dark yellow, large spike.....	.15	1.50	10.00
Goliath. Showy spikes of dark maroon flowers.....	.15	1.50	10.00
Halley. Salmon-pink, dark red stripes on lower petals.....	.8	.75	5.00
Henry C. Goehl. Large solid, white flowers, slightly flushed with pink; deep crimson blotch on the lower petals.....	.25	2.50	....
Herada. Phlox color shaded with purple.....	.10	1.00	7.50
Iwa. Rose pink with red blotch on lower petals; tall, strong spike....	1.00	....	....
Joe Coleman. Vivid cardinal red brightened by crimson and maroon. Ruffled edge .....	.10	1.00	7.50
Marietta. Delicate light salmon and orange; blotch of deep salmon red on lower petals; large flowers on tall stem.....	.75	7.50	....
Marmora. Lavender and gray; smoky type; eight enormous flowers open at once; strong grower.....	1.00	....	....
Mary Pickford. Flower of a most delicate creamy-white. Throat of soft sulphur-yellow .....	.10	1.00	7.50
Miss T. Rose. Beautiful creamy Tea Rose color.....	.15	1.50	10.00
Mr. Mark. Light blue with dark blue blotch in throat.....	.15	1.50	10.00
Mr. W. H. Phipps. La France pink, overlaid with salmon rose; enormous flowers with ten or more open at once.....	1.25	....	....
Mrs. Dr. Norton. Very large white flowers with edges suffused with soft La France pink.....	.10	1.00	7.50
Mrs. Francis King. Immense flowers of a beautiful flame-pink.....	.8	.75	5.00
Mrs. Frank Pendleton. Large, salmon-pink, heavily blotched with blood-red in the throat.....	.10	1.00	7.50
Mrs. Frederic C. Peters. Rose lilac with crimson blotch on the lower petals; fine .....	.10	1.00	7.50
Mrs. Leon Douglas. Rose striped with orange and scarlet.....	.10	1.00	7.50
Mrs. Wm. E. Clark. Long, perfect spike of salmon pink flowers with bright crimson blotch. Certificate of merit from Am. Glad. Society..	.15	1.50	....
Peace. Flowers color pure white, feathered with pale lilac.....	.10	1.00	6.50
Pfitzers Triumph. Unquestionably one of the best ever introduced. Stems, 5 feet tall; flowers 6 inches across; color bright orange salmon with small velvet red blotch in the throat.....	.75	7.50	....
Pink Perfection. Very large flower of a delicate pink.....	.10	1.00	7.50
Priscilla Alden. Orange with light yellow blotches. Certificate from Mass. Hort. Society.....	.10	1.00	....
Schwaben. A clear citron-yellow with purple tongues on lower petals..	.10	1.00	7.50
Sunnymede. Orange yellow with red blotch.....	.20	2.00	....
Scarlet Wonder. Mammoth flowers of purest deep scarlet.....	.10	1.00	7.50
Twin Fires. Pure pink with yellow blotches and scarlet spot in center..	.25	2.50	....
Gold Medal Mixture. By far the finest mixture of Glads that we have ever offered .....	....	.60	4.50

GLADIOLI—*Continued*

PRIMULINUS HYBRIDS

Most pleasing self-colors that vary from pale yellow to bright salmon, apricot, and light scarlet. These graceful flowers are of medium size, of a distinct hooded style with prominent veinings on the petals.

	Each	Doz.	Per 100
Alice Tiplady. Color a beautiful saffron-orange.....	\$.10	\$1.00	\$7.50
Maidensblush. Enchantress pink; earliest of all.....	.10	1.00	7.50
Ming Toy. Deep buff with yellow throat.....	.10	1.00	7.50
Myra. Giant flowering, deep salmon on yellow ground, tall.....	.15	1.50	10.00
Orange Queen. Flowers of pure Apricot.....	.10	1.00	7.50
Salmon Beauty. Deep salmon with yellow throat.....	.10	1.00	7.50
Butterfly Primulinus Mixture. A very fine mixture of all colors.....	....	.60	4.50

GERMAN IRIS

German Iris. They will grow almost anywhere, in the sun or shade, in sand or clay so long as the water does not stand on them at any time and they will survive our severest winters. They may be planted at any time between April and October but late plantings require protection from heaving late in the winter. The newer Irises rival the orchids in color range and descriptions are, at best, only meager. (S) means standard or upright petals, (F), falls or drooping petals.

	Each	Doz.
Ambassadeur. Height 40 in. Giant flowers; S, smoky bronze; F, dark velvety maroon .....	.40	4.00
Iris King. S, clear lemon yellow; F, rich maroon bordered yellow.....	\$.35	\$3.50
Madame Chereau. S and F, white; edges frilled azure blue.....	.25	2.50
Mrs. H. Darwin. S, pure white; F, white, slightly violet at base.....	.25	2.50
Gold Imperial. 32 in. The best clear, all yellow yet produced.....	.60	6.00
Lent A. Williamson. 42 in. S, campanula violet; F, velvety purple.....	.35	3.50
Oriflamme. 24 in. Enormous flowers. S, blue lavender; F, blue purple.....	.25	2.50
Pallida Dalmatica. True sort. S and F, soft lavender; branching.....	.25	2.50
Parc de Neuilly. S and F, rich dark purple; late flowering; fragrant.....	.25	2.50
Rhein Nixe. S, pure white; F, deep violet blue with white edge.....	.25	2.50
Souv. de Mme. Gaudichau. 40 in. Giant flowers of richest deep purple.....	.75	7.50
Monsignor. S, beautiful deep violet; F, darkly veined crimson purple.....	.25	2.50

The above Iris are all extremely fine varieties and should not be confused with the older unnamed sorts.

JAPAN IRIS

Last of the wonderful Iris procession in time of flowering; but for size of plant and flowers, shapeliness, richness of coloring, beauty of pattern, and splendor of general effect it is unquestionably first.

	Each	Doz.
1—Kumo-no obi. (Band of Gold.) Clear purple, with distinct rays and halo of white surrounding the golden throat, the pure white standards tipped purple	\$.35	\$3.50
2—Gekka-no-nami. (Waves under Moonlight.) Glistening white with creamy white stigmas .....	.35	3.50
3—Moniji-no-taki. (Maple Waterfall.) Bright rosy crimson, beautifully feathered in white. Petaloid-stigmas white, purple crested.....	.35	3.50
4—Koki-no-Iro. (Purple and Gold.) Rich violet purple with white petaloids tipped violet. The conspicuous golden throat extends outward in sharp bluish white rays.....	.35	3.50
5—Gold Bound. A fine double, pure white, enriched by a creamy glow from the gold banded center.....	.35	3.50
6—Ushiu. (Universe.) Six-petaled flowers. Color cerulean blue with golden center and white halo from which radiate many clear white lines. Standard white, tipped blue.....	.35	3.50
7—Iso-no-Nami. (Shadow Waves.) A magnificent broad petaled variety; one of the largest flowered, and the latest to bloom. Color, rose and cerulean blue over white; deepening towards the center of rosy lilac.....	.35	3.50
Superb Mixture of Japan Iris Roots, good assortment, un-named.....	....	2.00

WATER LILIES

Owing to the greatly increased use of the outdoor pool in gardening today, we are listing a few of the plants that are best suited for culture in this locality. A small pool to accommodate three or four lilies will more than repay for the little work involved.

The Tropical Lilies listed should be treated as annual plants and replaced each year. They are strong growing and will produce a hundred or more blooms in a season if given sufficient root space.

One cubic foot of soil is about the minimum in which a lily will do well. More space should be provided if possible. A good clay loam is the best soil and should be mixed about 2/3 soil with 1/3 well rotted cow manure or sheep manure.

The Tender Lilies listed below are started plants and cannot be set outside until late May or early June. The Hardy tubers may be planted as early as April with safety.

TROPICAL OR TENDER WATER LILIES—DAY BLOOMING

	Each
General Pershing. Largest and best pink. Very free bloomer.....	\$4.50
August Koch. Purple lilac color. Strong grower. Flowers 7"-8".....	2.50
Panama Pacific. Opens to rich wine color changing to a Royal Purple. Very popular.....	2.50
Pennsylvania (Blue Beauty). Deep blue. Yellow center. Flowers 8"-12".....	2.50
Mrs. Woodrow Wilson. Lavender blue. Very large flowers.....	2.00
Mrs. Geo. Pring. Pure white. Prolific bloomer. Flowers 8"-10".....	2.00
Mrs. C. W. Ward. Rich rose pink. Yellow center. Large flowers.....	2.00

NIGHT BLOOMING TENDER LILIES

	Each
Juno. Pure white. Saffron center, 8"-12" across.....	2.50
Bissett. Rose pink. Cup shaped. 8"-10" across.....	2.00
Omarana. Variegated pink. Very popular and large.....	1.50

We are also able to supply a few packages of the tender lily seed. These may be started during the winter in a small dish of soil covered with a few inches of water, and kept in a warm light place. These will bloom in about five months from seed.

Blue Zanzibar Water Lily Seed. Day Bloomer. 10 seeds. Package.....	.35
Mixed Day and Night Bloomers. 15-20 seeds. Package.....	.25

HARDY WATER LILIES

Strong dormant tubers which take the same general culture as the Tender Lilies. However they may be left in the pool all winter if well covered with water.

	Each
Escarboucle. Vermillion red. Large strong grower.....	\$5.00
Gloriosa. Red. Very large and fine. Fragrant.....	4.50
Comanche. Open to apricot, changing to copper bronze. Very popular.....	3.50
Paul Hariot. Orange changing to red through three days. Unique.....	3.00
James Brydon. Rosy crimson. Very free grower.....	3.00
Morning Glory. Shell pink. Deeper center shading to white at tips.....	3.00
Marliac Rose. Fragrant rose pink. Popular.....	2.50
Chromatella. Best clear yellow. Very popular.....	2.00
Gladstone. Brilliant pure white. Large flowers.....	2.00
W. B. Shaw. Fragrant rich pink. Strong grower.....	1.50
Marliac White. Clear white with pink shading. Very vigorous.....	1.50

In addition to the lilies it is well to have a few edging plants to give variety and naturalness to the pool. Most of the plants are potted and can be lifted and kept indoors in the winter.

Giant Arrowhead. Arrow shaped leaves, 1 to 3 ft. tall. Flowers spike-shaped and white. 3 for	\$1.00
Graceful Cat-Tail. Smaller tails than the common type and not so tall. Height about 4 ft. Excellent background plant. 2 for.....	.50
Imperial Taro. Similar to the Arrowheads with variegated leaves. Makes a good centerpiece for pools. Each.....	1.00
Papyrus. Triangular stalks 5 to 8 ft. tall. Good background for the larger pools. 3 for	1.00
Parrot Feather. Long trailing feathery stems of bright green. Very effective for corner planting or trailing over a fountain. 3 for.....	.50
Primrose Creeper. A rapid growing semi-aquatic vine, leaves waxy green; flowers bright yellow. 3 for.....	.50
Variegated Sweet Flag. Long variegated saber-like leaves, 1½ to 2 ft. tall. Hardy 3 for	1.00
Umbrella Palm. Good background plant with fine stalks and leaves resembling the ribs of an umbrella. 3 for.....	1.00
Dwarf Umbrella Palm. Dwarf form of the above. Excellent for tub culture. 3 for...	1.00
Water Poppy. A submerged plant with floating leaves; flowers yellow and poppy shaped. 3 for .....	.50

All the above aquatic plants must be ordered in advance. They are very perishable and cannot be kept in stock for any length of time. However we can supply them on 2 or 3 days notice.

LILIES

Lilies thrive best in a rich, moist soil. Most varieties should be planted at least six inches deep and an inch or two deeper if of the Speciosum variety. When planted the bulbs should rest upon an inch of sand and about the same quantity should surround the bulbs on all sides. A light covering of leaves or litter should be spread when the ground freezes.

	Each	Doz.
Auratum (Gold Banded). Undoubtedly one of the finest. Its large, graceful, fragrant flowers are composed of six petals of a delicate ivory-white color, thickly studded with chocolate-crimson spots, and striped through the center a golden-yellow; 3 to 5 feet. July, September.....	\$.35	\$3.50
Batmanni (Turks Cap). Color reddish orange.....	.60	6.00
Henryi (Yellow Speciosum). Deep apricot-yellow, lightly spotted brown.....	.75	7.50
Regale (Myriophyllum). The large trumpet-shaped, delicately scented flowers, are ivory-white, shaded pink, tinged with canary-yellow at the base of the petals .....	.50	5.00
Speciosum Album . Pure white with a green band traversing the center of each petal .....	.60	6.00
Speciosum Rubrum . With ruby spots distributed over a broad expanse of white .....	.45	4.50
Superbum . A beautiful, native variety, bright, reddish-orange, spotted.....	.30	3.00
Tigrinum Splendens . Bright orange-red, spotted with black.....	.25	2.50
Tigrinum Flore Plena . Bright orange-scarlet, spotted black.....	.25	2.50
Umbellatum Grandiflorum . Coppery-orange, bell shaped flowers.....	.45	4.50

PAEONIES

The cultural requirements of the Paeony are few and simple: A sunny position; a deep, rich soil and a plentiful supply of water during the growing season.

We offer only whole roots as we do not handle "divisions" or "eyes". The planting of whole roots means the saving of two or three years in securing perfect blooms.

	1 yr. Each	3 yrs. Each
Couronne d' Or . Good sized flowers, of creamy white, sometimes flaked with carmine at center.....	\$.40	\$2.50
Duchesse De Nemours , large and full, the most nearly pure white.....	.40	2.50
Dorchester . Pink flowers. One of the latest to bloom. Dwarf, compact grower .....	.50	2.50
Felix Crousse . Double heads; deep crimson, marked with cardinal. Late.....	.50	3.00
Festiva Maxima . White, inner petals, slightly tipped crimson.....	.40	2.50
L'Esperance . Deep rose with crinkly white tips large, pink.....	.40	2.50
Messonnier . Cardinal, violet tipped. Flowers large and high built.....	.40	2.50
Mons. Jules Elie . Pure pink; broad reflexing guards with a high pyramidal body .....	.75	3.00
Sarah Bernhardt . Apple blossom pink, with each petal tipped with silver.....	.75	3.00
Virginie . A dainty pink with yellow stamens.....	.75	3.00

TUBEROSES

The bulbs grow in any garden soil, but should be planted where the sun can reach them all day and with the tops out.

	Doz.	Per 100
Double Pearl . First size and quality. 3 for 25c.....	\$.75	\$5.50

POT GROWN BEDDING PLANTS

For further descriptions see under **Flower Seed List**.

	Each	Doz.
AGERATUM . Blue annual useful for bedding; in bloom throughout the summer	\$.10	\$1.00
ALYSSUM . One of the best known annuals, flowers all summer.....	.10	.75
ANTIRRHINUM . (Snapdragon.) In separate colors.....	.10	1.00
ASTERS . Admirable for vases and table decorations. Pot grown.....	....	.75
CALENDULA . Disc-like double flowers, in shades of yellow and orange.....	.10	1.00
COLEUS . Unsurpassed for bedding; beautifully colored foliage.....	.10	1.00
COSMOS . Giant flowering. Red, pink or white.....	.10	.75
DAISY, ENGLISH . Hardy, pink and white, fine for bordering.....	....	.40
GERANIUMS . Standard sorts such as S. A. Nutt, Madame Barney, etc. Each 35c to 50c.		
GERMAN STOCK . Spikes of fragrant flowers; fine for cutting.....	.15	1.50
HELICHRYSUM (Straw Flowers). Double flowers of brilliant colors.....	.10	1.00
HELIOTROPE . Excellent for bedding, very fragrant, fine for cutting.....	.15	1.50
LANTANA . Half-hardy perennial with blossoms resembling Verbenas.....	.20	2.00

POT GROWN BEDDING PLANTS (Continued)

	Each	Doz.
LARKSPUR, ANNUAL. Blue, Carmine, Pink and White.....	.10	.75
LEMON VERBENA. Very fragrant foliage.....	.25	2.50
LOBELIA. Beautiful blue, for borders, window boxes and hanging baskets....	.10	1.00
MARIGOLD. Blooms continually	\$.10	\$1.00
PANSY. Strong, well-grown plants in bloom, in the greatest possible variety of colors .....		.40
PETUNIA. Rosy Morn and Balcony Fringed.....	.10	1.00
PETUNIA. Cal. Giants. From 2½ inch pots, each 10c; 3 inch.....	.25	2.50
SALVIA. Long spikes of brilliant scarlet flowers. From 2½ inch pots, each 10c; 3-inch		
	.15	1.50
SALPIGLOSSIS. Yellow, crimson and purple.....	.10	1.00
VERBENA. Heads of brilliant, colored flowers.....	.10	.75
WALLFLOWER. Sweetly scented flowers in the early spring. Colors are the various shades of reds and yellows.....	.15	1.50
ZINNIAS; Giant Flowering. All colors.....	.10	1.00

VEGETABLE PLANTS

As usual we will have a large supply of all kinds of Vegetable Plants such as Cabbage, Cauliflower, Celery, Tomato, Egg and Pepper Plants, Strawberry and Sweet Potato Vines at reasonable prices. As far as possible, these are raised from our own stock seed of the best varieties for home use and they may be relied upon. Ready in May and June.

VINES

	Each	Doz.
Boston Ivy. (Ampelopsis Veitchii.) Perfectly hardy and able to cling to brick or stone walls; strong 2-year roots. Ready in March. Each 50c. Pot Grown Boston Ivy, in leaf, ready in June.....	\$.75	....
Celastrus Scandens. (Bittersweet.) Handsome glossy foliage and large clusters of beautiful, orange-crimson fruits retained all winter. 2 year.....	.50	....
Cinnamon Vine. Beautiful glossy leaves.....	.15	\$1.25
Clematis Paniculata. (Japanese Clematis.) A perfectly hardy vine. Blossoms white, fragrant, and so abundant as to suggest a cloud. Out of two inch pots. Each 15c; 2 for 25c. 2 year Roots, each 35c.		
Dutchman's Pipe. (Aristolochia Siphon.) A hardy vine with large heart-shaped leaves and brownish flowers resembling miniature pipes. Strong dormant plants in March.....	1.00	....
Honeysuckle. (Hall's.) White, fragrant flowers. Perfectly hardy and foliage is retained very late. Two year old Dormant Roots 45c each; Plants out of pots, each 15c; 2 for 25c.		
Madeira Vine. A rapid-climbing plant, having beautiful, wax-like leaves and feathery white flowers, with a delicious fragrance resembling mignonette. Ready in April. 2 for 25c.....	.15	....
Moonflower Vine. Flowers, immense in size and pure white, open at night, and are delicately fragrant. Grows best in the sun, and requires rich soil and plenty of water. 2 for 25c.....	.15	....

POLYGONUM AUBERTI

	Each	Doz.
It is almost unbelievable that a hardy vine could grow so fast and so far in the first season, and the second and later seasons only increase one's wonder. In June and again in August the vine produces masses of fronds of tiny white flowers in such profusion as to almost hide the leaves.....	\$.75	

WISTERIA VINES

	Each	Doz.
Purple Wisterias have a place no other vine can fill; two year roots.....	\$.75	....

HARDY PLANTS

	Each	Doz.
For further descriptions see under Flower Seed List.		
ACHILLEA (The Pearl). Pure white flowers, fine in the cemetery. 2 feet high.	\$.15	\$1.50
ACONITUM (Monkshood). Deep blue flowers of branching habit.....	.25	2.50
ALYSSUM (Saxatile Compactum). Masses of yellow flowers in May.....	.15	1.50
ANEMONE (Japonica, White or Pink.) Autumn flowering plants.....	.20	2.00
ANCHUSA ITALICA (Dropmore Variety). Gentian-blue.....	.15	1.50
AQUILEGIA (Columbine). The most varied and delicate combinations of color.	.15	1.50
ARTEMESIA (Wormwood). Large, branching panicles of creamy white flower-heads .....	.25	2.50
ASTERS, Hardy. Masses of blooms throughout the fall.....	.15	1.50
BAPTISA. Australis. Racemes of indigo-blue flowers in mid-summer.....	.15	1.50
BOLTONIA. Latisquama. Large sprays of lavender-pink flowers.....	.20	2.00
CAMPANULA (Calycanthema). Large cup-and-saucer-shaped flowers.....	.20	2.00
CAMPANULA (Medium Canterbury Bells). One of the most popular biennials.	.20	2.00
CAMPANULA (Pyramidalis). Forms a perfect pyramid, crowded with large blue flowers .....	.20	2.00
CANDYTUFT (Annual Iberis). Fine for massing in beds or borders or cutting..	.20	2.00
CENTAUREA MONTANA. Flowers of violet blue from July to September....	.15	1.50
CHRYSANTHEMUM. White, Red, Pink and Yellow. Last splendidly when cut and will remain in bloom outside after other flowers have been killed by frost .....	.20	2.00
COREOPSIS LANCEOLATA. Flowers of rich golden-yellow during the entire summer .....	.15	1.50
SHASTA DAISY (Alaska). Blossoms 4½ to 5 inches across; white.....	.15	1.50
DELPHINIUM (Belladonna). Large spikes of the most delicate turquoise-blue.	.15	1.50
DELPHINIUM (Bellamosa). A very dark blue variety.....	.15	1.50
DELPHINIUM (Gold Medal Hybrids). Grand assortment of colors.....	.15	1.50
DIANTHUS PLUMARIUS (Spice or Border Pink). Flowers strongly clove-scented .....	.20	2.00
DICENTRA (Bleeding Heart). Heart-shaped pink flowers are always attractive .....	.50	5.00
DICENTRA (Formosa) (Plumy Bleeding Heart). A low-growing species; showy pink flowers.....	.25	2.50
DIGITALIS (Foxglove). Bloom profusely during June and July.....	.20	2.00
FORGET-ME-NOT. The ever-blooming variety.....	.20	2.00
FUNKIA VARIEGATA. Flowers lilac; leaves a deep green, striped yellow....	.20	2.00
GAILLARDIA GRANDIFLORA (Blanket Flower). The large brown center is surrounded with scarlet or crimson rings, with an outer border of orange or yellow .....	.15	1.50
GEUM COCCINEUM (Mrs. Bradshaw). With large double flowers of a fiery red .....	.15	1.50
GYPSOPHILA (Baby's Breath). Cloud-like sprays of minute white flowers....	.15	1.50
HELIOPSIS EXCELSA. Chrome-yellow bleaching to clear yellow as flower matures .....	.20	2.00
HEMEROCALLIS THUNBERGI (Yellow Day Lily).....	.20	2.00
HEUCHERA SANGUINEA. Graceful spikes of bloom much prized for cutting.	.25	2.50
MALLOW MARVELS. New varieties, with the richest colors; enormous flowers .....	.20	2.00
HOLLYHOCK. All colors .....	.15	1.50
IBERIS (Hardy Candytuft). Handsome evergreen foliage; white flowers.....	.20	2.00
LAVENDER. Deliciously fragrant perennial.....	.20	2.00
LATHYRUS (Hardy Sweet Pea). Free-flowing perennial climber.....	.20	2.00
LIATRIS (Blazing Star). Tall rocket-like spikes of rosy purple flowers.....	.20	2.00
LOBELIA CARDINALIS. Long spikes of fiery scarlet flowers.....	.20	2.00
LUPINES, HARDY. Large spikes of Pink, Blue and White flowers.....	.25	2.50
LYCHNIS (Jerusalem Cross). Bunches of bright scarlet flowers, 2 to 3 feet....	.25	2.50
MONARDA ROSEA (Bee Balm). Bright Rose colored flowers with aromatic foliage .....	.20	2.00
OENOTHERA (Evening Primrose). Beautiful, yellow blooms from June to September .....	.25	2.50
POPPY (Iceland). Flowers ranging from white to deep orange-scarlet.....	.20	2.00
POPPY (Orientale). Gigantic orange-scarlet flowers.....	.20	2.00
POPPY (Bracteatum). An attractive shade of crimson.....	.20	2.00
HARDY PHLOX. Magnificent spikes of showy Pink, White and Red flowers year after year, with comparatively little care.....	.20	2.00
PHLOX SUBULATA (Moss Pinks). Mass of pink blooms in early spring.....	.15	1.50
PHYSOSTEGIA (False Dragon-Head). Mid-summer flowering perennial, forming bushes 4 to 6 feet high, bearing spikes of pink and white flowers.....	.15	1.50
PLATYCODON (Chinese Bell Flower). Large blue flowers in July and August..	.15	1.50

HARDY PLANTS (Continued)

	Each	Doz.
PYRETHRUM (Painted Daisy). Foliage fine cut and attractive. Flowers in shades of pink, crimson and white.....	.15	1.50
PRIMULA VERIS (English Primrose). Plant them in rich, well-drained soil in the border or in a sheltered nook in the rockery.....	.20	2.00
GOLDEN GLOW. Carries its bright yellow flowers from early summer until frost .....	.15	1.50
SALVIA AZUREA. Pretty sky-blue flowers in August and September.....	.15	1.50
SCABIOSA. Large lavender blue flowers borne on long stems.....	.20	2.00
SEDUM SPECTABILE. Rose-colored flowers in immense heads during the late fall .....	.20	2.00
STATICE (Sea Lavender). A graceful plant for the border or rockery, with large, spreading panicles of small "everlasting" flowers.....	.20	2.00
STOKESIA. Deep lavender-blue aster-like flowers, 4 inches in diameter.....	.20	2.00
SWEET WILLIAM (Dianthus). Free-flowering perennial, producing splendid effects, with their rich and varied flowers.....	.15	1.50
TRITOMA PFITZERI (Red Hot Poker). Rich brilliant orange, very fine.....	.25	2.50
TROLLIUS. Mammoth bright yellow flowers, May to August.....	.50	5.00
YUCCA (Filamentosa). Tall spikes of fragrant creamy flowers appear in June and July. ....	.35	3.50

ORNAMENTAL SHRUBS

ALMOND...Double Pink. The very double, rose colored flowers are borne in the greatest profusion, 18/24 in. size.....	Each	\$.65
ALTHEA (Rose of Sharon). Blooms in August and September. Has great quantities of brightly colored flowers, 24/36 in. size.....		.50
JAPANESE RED-LEAVED BARBERRY. It is thoroughly hardy and the foliage is a rich bronze red, becoming brighter and handsomer as the season advances. To have the coloring at its best this should be planted in full sunlight, 12/15 in., 10 for \$6.00.....		.65
JAPANESE BARBERRY (Berberis Thunbergii). The hardest and most valuable of this family; a hedge plant that will turn man or beast by its density of growth and its numerous thorns, 15/18 in. Each 25c; 10—\$2.00; 18/24 in., each 35c; 10—\$3.00.		
BUDDLEYA (Butterfly Bush). Many know it as the Summer Flowering Lilac. In its prime during July and August. Two year plants.....		.50
CALYCANTHUS (Carolina Allspice). Its straight shoots covered with large glossy leaves, from the axils of which spring odd, double, red flowers that are spicily fragrant. 15/18 in. size.....		.60
CYDONIA (Japan Quince). Bright scarlet flowers in early spring. 18/24 in.....		.50
DEUTZIA (Gracillis). Dwarf growing, pure white flowers in May. 12/15 in.....		.50
DEUTZIA (Lemoinei). Large flowers of pure white, borne in cone-shaped heads. 18/24 in. ....		.50
DEUTZIA (Pride of Rochester). Flowers large double white. 2/3 feet.....		.50
FORSYTHIA (Golden Bell). Suspensa. Long drooping branches covered with yellow trumpet-shaped flowers in April. 2/3 feet.....		.65
FORSYTHIA (Fortunei). Before any tree or shrub shows a leaf these strong, erect plants show glorious masses of golden-yellow flowers. 2/3 feet.....		.50
BUSH HONEYSUCKLE (Tartarica Alba). Flowers blush white. 2/3 feet.....		.50
BUSH HONEYSUCKLE (Tartarica Rubra). Flowers deep rose pink. 2/3 feet.....		.55
HYDRANGEA (Japanese or Paniculata). Immense heads of white blooms that turn brown in the fall and remain thus for months in the house as a winter bouquet. 18/24 in. ....		.50
HYDRANGEA (Arborescens or Snowball Hydrangea). Makes a wonderful display all through July to September. 18/24 in.....		.50
HYDRANGEA (Tree Form). 3 to 4 feet.....		1.25
LILAC (Syringa Vulgaris). 2/3 feet. Purple 50c; White.....		.80
MOCK ORANGE (Philadelphus coronarius). Orange-scented, creamy-white flowers in May and June. 2/3 ft. plants.....		.50
MOCK ORANGE (Coronarius grandiflorus). Larger more conspicuous white flowers than the preceding. 2/3 ft. plants.....		.50
MOCK ORANGE (Virginalis). A magnificent new variety. The flowers are the largest, handsomest, and most sweetly fragrant of any known variety, with longest blooming season. 1½/2 ft.....		.55
PRIVET (Californian). The most popular of the privets, foliage dark green; grows rapidly. 18/24 in. plants. Ten—\$0.75; 100—\$4.00. 24/30 in. plants, ten—\$1.20; 100—\$8.00.		
SNOWBERRY (S. Racemosus). Inconspicuous rose colored flowers in June and July, followed by, large clustered, milk white fruits. 2/3 feet.....		.45
INDIAN CURRANT (S. Vulgaris). Similar to the Racemosus except that its fruits are red. 2/3 feet.....		.45

ORNAMENTAL SHRUBS (Continued)

	Each
SPIREA (Anthony Waterer). This is one of the best dwarf red-flowering shrubs. 15/18 in. plants.....	.40
SPIREA (Douglasi). Upright in growth. Bears spikes of beautiful deep rose-colored flowers in July. 2/3 feet.....	.50
SPIREA (Thunbergii). The white flowers appear in great numbers very early in the spring. 18/24 in. ....	.45
SPIREA (Van Houttei). (Bridal Wreath). The pure white flowers appear in early summer. Very hardy. 2/3 ft. plants.....	.35
WEIGELA (Rosea). Great quantities of pink flowers, appear in May, June and July. 2 to 3 ft. plants.....	.50
WEIGELA (Eva Rathke). Attractive flowers of deep carmine. 18/24 in.....	.50

HARDY ROSES

Roses should be planted in rich, well prepared soil, preferably clay loam, fertilized with well rotted manure or bone meal. They should be given thorough, but shallow cultivation. The best results can be obtained when planted in the open sunlight. All Roses are benefitted by winter protection, by banking about the plant with earth or covering with a light mulch of leaves or peat moss. Roses should be trimmed in the spring before growth starts, shaping the plant and removing all canes that have become weakened by blooming. The health and vigor of the plant can be improved by removing the dead flowers during the summer.

To counteract any damage to the leaves by worms use Arsenate of Lead; for aphid, thrip, or red spider, use Nicotine; and for fungus use Bordeaux Mixture or Sulphur.

HYBRID TEA ROSES (Everblooming or Monthly Roses)

Columbia. A beautiful True Pink Rose of enduring color.		
Dame Edith Helen. A magnificent fragrant, full bodied new rose of many substantial petals which curl back prettily, holding steadily to one vivid pink color.		
Edel. Large bloom of purest white with ivory base.		
Eldorado. Bud red-orange; flower pure yellow without fading out.		
Emile Charles. Fiery red, shaded golden yellow.		
Gruss An Teplitz. Color scarlet, shading to velvety crimson, very fragrant.		
Independence Day. Flaming yellow buds, heavily shaded with copper and brown, fading to light orange-pink.		
Kaizerin Augusta Victoria. The color is beautiful creamy white. Fragrant and free bloomer.		
Killarney. Soft pink. Buds long and pointed. It is in bloom from early summer till frost.		
Lady Hillingdon. Apricot yellow. The flowers are of large size, of good form and remarkably plentiful.		
Los Angeles. Flame-pink toned with coral and shaded with gold at the base of the petals. The blossoms are very fragrant and of lasting color.		
Luxemburg. A fine, fully double Rose of Golden Yellow.		
Mme. Butterfly. Charming bright pink, shaded apricot and gold.		
Mme. Edouard Herriot. A glorious commingling of terra cotta bronze, geranium red and dull copper; fine, long, pointed buds of coral red and yellow.		
Mrs. Aaron Ward. Deep golden orange, shading to cream; the standard yellow.		
Mrs. W. C. Miller. Pearl pink and salmon, outside rosy vermillion.		
Ophelia. Delicate salmon-flesh, tinted with rose pink.		
Pink Pearl. Bright rose pink with salmon base, and red suffusion slightly accented at the margin.		
Pink Radiance. The color a beautiful carmine rose with shades of opal and copper.		
Red Radiance. Even better than the parent Radiance in habit, and a lovely deep red color.		
Souvenir de Claudius Pernet. Sunflower yellow; buds long and pointed; stems nearly thornless.		
William F. Dreer. Soft, silvery shell pink.		
Wilhelm Kordes. Exquisite golden yellow flushed with orange and copper red.		
	Each	10
Strong two-year dormant plants of above roses.....	\$.75	\$7.00
Potted Roses, in bud and bloom, ready early in June.....	1.00	9.50

HARDY HYBRID PERPETUAL ROSES

Frau Karl Druschki. Pure snow white very long bud, opening to very large flowers. A continuous and exceedingly free bloomer.

Geo. Arends. A rose of much the same flower and plant character as the famous white Druschki; color a satiny, tender rose.

J. B. Clark. It is robust in growth, with clean, heavy foliage. Flowers are large and superbly constructed, deep scarlet overlaid crimson.

Paul Neyron. One of the finest hardy Roses, furnishing a great quantity of uniformly shaped flowers 4 to 6 inches across. Color a bright ruddy pink.

Mrs. J. H. Laing. Soft pink, large size and richly fragrant.

Each . . 10.
All Varieties, strong, dormant, two-year old plants..... \$.75 \$7.00

HARDY CLIMBING ROSES

	Each
American Beauty. Color a pleasing rose-pink; of splendid form, a strong, healthy vigorous grower.	
American Pillar. A single flowering variety of great beauty. The flowers are of large size, of a lovely shade of pink with clear white eyes and clusters of yellow stamens..	\$.70
Doctor Van Fleet. Large flowers resembling Tea Roses of flesh-tinted white on very long stems	\$.70
Excelsa (Red Dorothy Perkins). Blood-red cluster Rose, as free and double as Dorothy Perkins, of which it is the red prototype.....	\$.70
Dorothy Perkins. A beautiful shell-pink; foliage finer, smoother and darker than Crimson Rambler. This is unquestionably the thriftiest, showiest, and most practical of the older pink climbers.....	\$.70
Gardenia. The tight, very numerous little yellow buds, are beautiful in early summer, the flowers opening up creamy white, jasmine scented.	
Mary Wallace. A new Pillar Rose type. Flowers well-formed, semi-double, bright clear rose-pink and salmon. Flowers generally exceed 4 inches in diameter. Very hardy	\$.70
Paul's Scarlet Climber. A brilliant, vivid scarlet which is maintained from bud until the petals fall. Medium in size, in clusters of from three to six flowers each.....	\$.70
Silver Moon. Large semi-double pure white flowers with yellow stamens.....	\$.70
Tausendschoen. The individual flowers are of a most elegant and graceful form, not stiff or unnatural, but as beautiful as a semi-double Azalea. These are produced in trusses, each truss a veritable bouquet of flowers of varying shades of pink and white	\$.70

SMALL FRUITS GOOSEBERRIES

	100	10	Each
Downing. Large, handsome, pale green, of splendid quality for both cooking and table use. Two year plants.....	\$15.00	\$2.00	\$.25
Houghton. Small to medium: Pale, red, sweet and tender, enormously productive. Two year plants.....	15.00	2.00	.25
Josselyn. Large size of best quality. A wonderful cropper. Two year plants		3.00	.40

GRAPES

Red Varieties. Two year Vines only

Catawba	12.00	2.00	.25
Delaware	17.00	2.50	.35
Salem	12.00	2.00	.30
Caco	40.00	4.50	.55

Black Varieties. Two year Vines only

Campbell	16.00	2.50	.35
Concord	9.00	1.50	.30
Moore's Early	12.00	2.00	.30
Worden	12.00	2.00	.30

White Varieties

Niagara	11.00	1.50	.30
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CURRANTS

Red Varieties. Two year plants only

Fay	12.00	1.75	.25
London Market	12.00	1.75	.25
Wilder	12.00	1.75	.25
White Grape. Two year plants only.....	12.00	1.75	.25

SMALL FRUITS (Continued)

BLACKBERRIES

	100	10	Each
Blower. One of the hardiest and most productive.....	\$ 5.00	\$.70	\$.10
Eldorado. Berries large and jet black. Yield enormous.....	5.00	.70	.10
Snyder. One of the finest large blackberries. Hardy and very prolific.	5.00	.70	.10

RASPBERRIES

Red Varieties

Cuthbert. Berries very large, rich crimson; flavor is sweet and luscious	3.50	.60	.10
Columbian. Very large, purplish red, great productiveness.....	5.00	.70	.10
St. Regis. Everbearing. Berries bright crimson, large size, rich flavor.	3.50	.60	.10

RASPBERRIES

Black Varieties

Cumberland. Fruit large and firm.....	3.50	.60	.10
Plum Farmer. Large, thick-meated, firm and attractive.....	2.50	.60	.10

FRUIT TREES

We carry none of the so-called "Mail Sizes" of Trees, Shrubs, Vines or other plants, so all orders for these should be shipped by Express or Freight. For shipments of moderate weight we recommend Express shipment. For short hauls the carrying charges are not greatly in excess of freight rates plus the necessary trucking charge at destination. While the shorter time needed for delivery insures receiving the goods in better condition.

APPLES—(5 to 7 feet high)

	100	10	Each
Early Harvest, Red Astrachan, Yellow Transparent, Duchess of Oldenburg, Maiden Blush, Rambo, Baldwin, Jonathan, Delicious, McIntosh Red, Grimes Golden, Northern Spy, Rome Beauty, Spitzenburg, Wealthy, and Stayman Winesap	\$6.00	\$.75

CHERRIES—SWEET

Bing. Black, ripens July. Tartarian. Black, June. Governor Wood. Light Red, June. Napoleon. Pale Yellow or Red, July. Yellow Spanish. Yellow and Red, June. 5 to 7 feet high.....	8.00	.90
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CHERRIES—SOUR

Baldwin. Red, ripens June. Dyehouse. Red, June. Early Richmond. Dark red, June. Montmorenci. Dark red, June. May Duke. Large Red, June. 4 to 5 feet high.....	8.00	.90
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PEACHES

	100	10	Each
Carman. Creamy White, August. Early Crawford. Large Yellow Freestone, September. Late Elberta. Yellow, Red cheek, late September. Early Elberta. Yellow, Red cheek, Freestone, September. J. H. Hale. Golden Yellow Freestone, September. Late Crawford. Large Yellow Freestone, late September. Lemon Free. Lemon shaped and colored, September. Rochester. Early Freestone. Yellow, sweet and juicy. August.....	3.50	.50

PEARS

Bartlett, Clapp, Anjou, Duchess, Flemish Beauty, Keifer, Seckle, Sheldon, Lawrence. 5 to 6 feet.....	7.50	.90
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PLUMS

Damson. Dark Purple, October. German Prune. Dark Purple, September. Green Gage. Large green marked red, September. Lombard. Violet Red, August. Yellow Egg. Yellow, August. Burbank. Cherry Red, August. Wickson. Yellow, September. 5 to 7 feet high	6.00	.75
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HARDY ORNAMENTAL TREES

CATALPA BUNGEI , grafted, 5-6 ft.	Each
CATALPA BUNGEI , grafted, 6-8 ft.	\$1.60
BECHTEL'S CRAB . The only sweet scented double Crab. 3 to 4 feet.....	2.00
ELM , American White or Weeping, 8-10 ft.....	1.00
ELM , American White or Weeping, 10-12 ft.....	1.75
ELM , Scotch, 8-10 ft.....	2.75
MAPLE , Norway, 10 ft.....	2.75
MAPLE , Silver, 8-10 ft.....	4.25
MAPLE , Silver, 10-12 ft.....	1.15
MAPLE , Sugar or Rock, 8-10 ft.....	1.60
MULBERRY , Teas Weeping, 1 year.....	4.25
PRUNUS PISSARDI . Purple leaved. 3 to 4 feet.....	2.75
SYCAMORE , European, 6-8 ft.....	.75
SYCAMORE , European, 8-10 ft.....	1.50
	2.00

INSECTICIDES AND SPRAYING COMPOUNDS

Most injurious Insects are roughly divided into two groups, those that chew or consume the foliage or flowers, which may be reached with stomach poisons and those that suck the plant juices which require a substance that kills by contact. Several of these may be combined for an all around spray on a small scale operation, but might be wasteful and expensive otherwise. Be sure to learn into which class the pest belongs that you wish to combat to avoid disappointment with your efforts.

	Lb.	4 lbs.	100 lbs.
Arsenate of Lead . Powder. The best remedy against canker worm, curculio and all leaf-eating insects on any plant, tree or shrub. A pure article that will not burn the foliage. Ours is the purest to be had. It sticks to the foliage. Use as directed on the package....	\$.45	\$1.50	\$31.00
Bordeaux Mixture . This is recommended for the control of fungus diseases or blight, rot, leaf curl or whatever name is used to designate the condition into which various plants and trees get when infested. Ours is powdered, one pound of which will make five gallons ready to apply. It is advantageous to add one quart of molasses or a pound of glucose to a barrel to make it stick better.....	\$.45	\$1.50	....
Cyanogas "A" Dust . For the control of Rodent and Insect Pests. Will destroy rats, mice, moles, ground hogs, garden ants, etc. Dust a small quantity in run or borrows; the gas released by exposure to the air will destroy the vermin. ½ lb. can 45c; 1 lb. can 75c; Combination of One Pound Can and Special Duster Gun.....			\$2.15
Fish Oil Soap . Prevents the ravages of mealy bug and various kinds of worms and insects that infest the bark of trees and shrubs. Per lb. 40c.			
Flit . This insect exterminator will destroy Moths, Roaches, Fleas, Chicken Lice, Ants, Flies, etc. May be used in any ordinary hand sprayer. It has a pleasant, aromatic odor and may be sprayed directly upon furniture, clothing, draperies or wall-paper without danger of injury or staining. It is non-poisonous and should be used in every home as a vermin preventative. Pint 75c—Quart \$1.25—Special Outfit for Household use—1 Pint and Sprayer \$1.00.			
Lime and Sulphur Wash is conceded to be the best remedy, all things considered, that there is against San Jose scale, Scurvy Bark Louse, Oyster Shell Scale, etc., while the lime has some value against some fungus diseases also.			
For a winter spray use one gallon of Wash to eleven of water and in summer one to sixteen. Per quart 40c; gallon 85c; 5 gallons \$3.25; barrel of 45 to 50 gallons, 24c per gallon, f. o. b. Cleveland.			
Nicotine . A liquid used for killing Aphis or Green Fly on roses, etc. May be sprayed or vaporized. 40 per cent strength, per lb. \$2.75; ½ lb. \$1.50; ¼ lb. 80c; small bottles 25c. Unmailable.			
Pyrox . A combination of Bordeaux Mixture and Arsenate of Lead—forming a combination for protection against both fungus diseases and leaf eating insects. 1 lb. 50c; 5 lbs. \$2.00; 10 lbs. \$3.50.			



This is a Plant Spray paste of recent introduction, particularly effective against Mealy Bug, Red Spider, Aphis and Scale that are so often found on pot plants in the house and so hard to destroy without damaging the plants or the surroundings. Ced-o-flora will not stain walls or fabric nor harm tender plants. A three ounce can makes five pints of spray. Price, 50c. 8 oz. can, \$1.00. Postage, 8c.

RED-SQUILL RAT POWDER. The government officials in the U. S. Agricultural Department are much concerned about the enormous annual loss caused by rats. A rat destroying agency that would be safe to use around the home and poultry yard and at the same time leave no annoying odors was long sought and finally found in this RAT POWDER. It is dusted on or mixed into any food the rats like and if there is enough to go around, it cleans them out. It is perfectly harmless to humans, house pets or even Baby Chicks. A package is enough for one pound of food. Price, 25c. Postage, 3c.

Hammond's Slug Shot. Recommended for most worms and caterpillars which infest cabbage plants, currants, gooseberries and the like. 1 lb. Sifter Carton, **20c**; 5 lbs. **65c**.

Scalecide. This is a miscible oil effective against scale on fruit and shade trees. It is used the same as the Lime and Sulphur Wash, opinions differing as to which is the best to use when considering the effects on the trees. Use 15 gallons of soft water to one of Scalecide. Price, Quart **75c**; **\$1.75** per gallon; 5 gallons for **\$6.50**; 10 gallons for **\$11.00**; 50 gallon barrel **\$39.50**.

Sulphur—Flowers of. Very finely pulverized for arresting mildew. Pkt. ½ lb. **15c**; lb. **25c**.

Tobacco Dust. Fertilizer and insecticide. An excellent fertilizer for lawns and gardens, and a good preventive against cut worms and leaf eating caterpillars. Dust onto the plants when they are wet, and for cut worms spread on the ground around the plants to be protected. If you have been troubled with wormy radishes or sickly lettuce, use a tablespoonful to the foot in the bottom of the furrow and sow the seeds right in the Tobacco Dust. It is a sure cure and will give you perfect radishes and lettuce. Per lb. **20c**; 5 lbs. **90c**; 10 lbs. **\$1.75**; 25 lbs. **\$3.75**.

Tree Tanglefoot. Similar to that used in making fly-paper. It is easily applied and is a most effective and economical protection for Fruit, Shade and Ornamental Trees against all crawling insects such as Canker Worms, Climbing Cut Worms, Ants; and the caterpillars of the Gypsy, Brown Tail and Tussock Moths. Prices, 1 lb. can **60c**; 5-lb. can **\$2.75**; 10-lb. can **\$5.25**; 25 lb. pail **\$11.00**.

	½ Pt.	Pt.	Qt.	Gal.
Volk. A liquid to be mixed in water for control of Red Spider, Mealy Bug, Scale, White Fly and Aphis. Directions on the can. Price .....	.50	\$.75	\$1.00	\$3.00
Wilson's O. K. Plant Spray. Well known for many years as an effective liquid for control of Aphis, Thrip, Scale, Rose Bugs and Mealy Bug. Price.....	.50	....	1.50	3.50

SEMESAN

The modern Disinfectant for seeds, bulbs, corms, roots and tubers of vegetables and flowers. There are a number of plant diseases that become established in the soil and hinder or entirely destroy the plants they attack. These diseases go by various names and affect many kinds of plants but the treatment is the same for any, namely put a small amount of Semesan in the package of seed and shake thoroughly before planting or in the case of roots or bulbs dust on or soak in a solution as directed. 2 ounce tin **50c**.

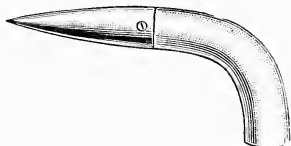
GARDEN IMPLEMENTS

In our stock of garden implements we shall carry only those qualities that we feel assured will render continuous and satisfactory service to the purchaser. The buying of garden tools with price as the only consideration is questionable economy.



ASPARAGUS KNIFE

Short handle, long steel blade. Each **50c**; also useful as a dandelion weeder.



Dibbles. For transplanting plants, iron point. Each **80c**.

Garden Lines. Cotton braided, any length, 48 feet, **40c**.

Grass Shears. Various patterns, each **75c** to **\$1.25**.

Garden Stakes. Bamboo, stained green, length 24 in. Dozen, **25c**; 100, **\$1.75**; 36 in., doz., **40c**; 100, **\$2.50**; 48 in., doz., **50c**; 100, **\$3.25**. Natural color, 60 in., doz., **50c**; 100, **\$4.00**.

Grafting Wax. Best quality for use when pruning or budding to prevent entry of fungus diseases and insects. ¼ lb. **20c**; pound **60c**.



Hose Menders. Cooper's. Brass tubing, barbed to require no tools; can not leak and will not pull out nor reduce the flow of water. For ½ inch or ¾ inch Hose, **10c** each.

Labels for flower pots. Plain, 4 in., per 1000, **\$2.50**; 5 in., **\$2.75**; 6 in., **\$3.00**; 12 in., per 100, **\$1.75**.

Copper Wired Tree Labels. 3½ in., per 1000, **\$3.75**.

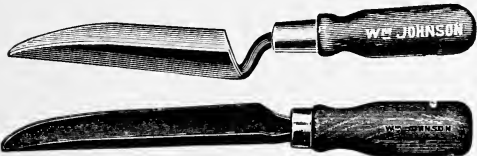
Indestructo Copper Tree Labels. No. 1, ¾x3½ in., per doz., **35c**; per 100, **\$2.25**; No. 2, 1½x5 in., per doz., **45c**; per 100, **\$3.25**.



Pruning Shears. Various styles and grades, 90c to \$3.00 each.

Raffia. For tying plants without cutting or breaking. Retains its great strength, wet or dry. Per pound 40c; 10 lbs. \$3.00.

Garden Forks. Ideal for lifting plants because few roots are injured. Each 60c.



Garden Trowels. Extra heavy, solid steel blades, wood handles, English pattern. The best made in this country. 6 in., 80c each; 7 in., 90c; 8 in., \$1.00. Narrow, for transplanting; will not bend, 5 in., 25c each; 6 in., 35c; 7 in., 50c.

Lawn Weeder. The Cleveland Lawn Weeder is one of the most practical devices on the market, for pulling weeds without stooping. Price \$1.25 each.



Magic Weeder. Serviceable hand tool for loosening the soil. Three sizes, 25c, 45c, 95c each.

RAIN KING HOSE NOZZLE

Wear-proof, leak-proof and guaranteed forever. Any conceivable adjustment from a long, solid stream to the finest spray—and only a quarter turn of the nozzle from one extreme to the other. Each \$1.50.



RAIN KING LAWN SPRINKLER

Each nozzle a complete sprinkler with full range of direction, distance and volume. Instantly set for either stationary or whirling spray. Nozzles set instantly for any spray, operate independently or together. Distributes water perfectly under any pressure. When set to revolve, regulates to run fast or slow, to cover small or large circle. Price \$3.50.

SPRAYERS AND DUSTERS

BUCKET PUMPS

Where the size of the garden warrants it a Deming Sprayer and a heavy Barn Bucket make an outfit that will outlast any other. The pump is brass throughout, valves included. Four feet of hose comes with the pump, but any length may be had, the pump running so easily that one man can operate a ten foot extension without help.

Deming's Success Sprayer. Held in place by the foot. Each \$8.00.

Deming's Perfect Success. May be clamped to the bucket, each \$8.50.

Barn Bucket \$2.25 each.

HAND SPRAYERS

For a small garden or a few plants these admirably fill the need. The low price admits of having more than one so that the proper material may be on hand whenever pests appear.

Hudson Misty Sprayer. One quart, tin tank. Each 50c.

Hudson Continuous Sprayer. One quart tin tank, each 75c.

Hudson Continuous Brass Sprayer. One quart, brass tank, each \$1.25.

INSECT POWDER DUSTERS

Hudson Cadet Duster. Barrel 15¾ inches long by 1¾ inches in diameter, 8 inch stroke. Handy size around the house. Each 50c.

Hudson Major Duster. Considerably larger than the preceding and intended more for garden use. Each \$1.25.



Deming's Success
Bucket Sprayer

The particular advantage of a compressed air sprayer is that the liquid which partly fills the tank can be put under pressure on the ground and sprayed out while up on a ladder with but one hand free to open the valve. The galvanized tank should be emptied end of the season to prevent corroding; the brass tank will not corrode.

Brown Auto-Spray No. 1-B. Four gallon tank of brass, self-closing stop cock, 2 feet of hose, each \$9.50; Galvanized Tank, No. 1-C, same equipment, each \$7.00.

Hudson Perfection Sprayer. Four gallon tank of galvanized steel; 12 inch extension rod; two sized opening at the nozzle, each \$7.00.

Hudson Junior Sprayer. 2½ gallon tank, otherwise same as the preceding. Price \$5.00.

FERTILIZERS

The need for different formulas of Fertilizers is based on the needs of the plants. Nitrogen, sometimes called Ammonia, produces the leaves, Phosphoric Acid, enlarges the flowers and fills out the seeds and Potash makes the roots and stiffens the plant stem. Which fertilizer to use should be governed by the results sought, most plants requiring some of each of the above elements but varying in the percentage. We handle the following list and make the analyses speak for each formula but should add by way of caution that the higher the analysis the stronger the product and the more care should be used to follow directions in order to avoid burning. The figures given represent the percentage of Nitrogen, Phosphoric Acid and Potash respectively and always in the same order.

Triple XXX Soil-Bil-Der. 10-6-4. 5 lbs. 60c; 25 lbs. \$1.75; 50 lbs. \$3.25; 100 lbs. \$6.00; ton \$96.00.

Lawn-Garden Pure Bone Fertilizer. 1.65-27=0. 5 lbs. 45c; 25 lbs. \$1.25; 50 lbs. \$2.25; 100 lbs. \$4.00; ton \$64.00.

Pulverized Sheep Manure. 2-1-2. 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00; ton \$48.00.

Pure Raw Bone Meal Fertilizer. 3.70-20-0. 100 lbs. \$4.50; ton \$72.00.

Soil-Bil-Der. 4-12=1. This is Sheep Manure with chemicals added to comply with the new State Fertilizer Law. 5 lbs. 45c; 25 lbs. \$1.25; 100 lbs. \$4.00; ton \$64.00.

Old Gardener Fertilizer. 2½-11=4. In addition, 22% Calcium Carbonate of Marl Lime. 1 lb. 25c; 5 lbs. 50c; 25 lbs. \$1.75; 100 lbs. \$5.00; ton \$90.00.

Grasselli's DuGrow Plant Food. 4½-15=4. A high grade article that should be used according to directions. 1 lb. 20c; 5 lbs. 60c; 25 lbs. \$1.75; 100 lbs. \$5.00.

Nitrate of Soda. 16% Nitrogen. Dissolve one teaspoonful in a gallon of water and sprinkle on the ground around the plants. 1 lb. 20c; 5 lbs. 75c; 25 lbs. \$2.50; 100 lbs. \$5.00.

Nitrate of Potash. 14-0-44. Highly concentrated. Use one teaspoonful to one gallon of water on the ground around the plants. 1 lb. 25c; 5 lbs. \$1.00; 25 lbs. \$4.00.

Sulphate of Ammonia. 25½% Ammonia. Highly efficient to destroy weeds, such as Dandelions, Chickweed, etc., in the lawn and to use as a fertilizer. 1 lb. 15c; 5 lbs. 60c; 25 lbs. \$1.50; 100 lbs. \$5.00.

Agricultural Lime. Use 1 lb. to 5x10 feet on acid soil once in five years and if very acid use not over twice as much. 50 lbs. \$1.00.

FULTON'S
PLANTABBS
ODORLESS PLANT FOOD TABLETS

11-15-20. Highly concentrated and pressed into small tablets to put, one in a five-inch pot once a month. Box of 30, 25c; by mail, 28c; 75 for 50c; by mail 56c; 150 for \$1.00; by mail \$1.07.

Superior Plant Food. 11½-6-8. High grade article intended for potted plants. 7 oz. tin, 50c; by mail 56c; 16 oz. tin \$1.00; by mail \$1.08.

Manure! More Manure!

You must have manure, and thanks to ADCO you can have quantities of it. You can turn every bit of vegetable refuse—cuttings, weeds, leaves, etc., from the garden, straw and cornstalks from the farm, into rich manure by the simple ADCO Process. Information free.



ADCO is a chemical preparation much like lime that is successfully used to reduce waste vegetable matter to usable compost in one season. A pit or a large enough box is gradually filled with refuse and sprinkled periodically, layer by layer with ADCO and kept moist. 25 lbs. \$2.25, 150 lb. sack \$11.50. Delivery extra.

GRANULATED PEAT MOSS

The more we observe and use this recent addition to aids in successful gardening the more enthusiastic we become. It has innumerable uses, such as lightening heavy soil, covering small seeds, mulching plants and shrubs during the summer to retain moisture, and in winter to prevent heaving, spreading on the lawn after seeding and fertilizing to protect the seed until it sprouts, mixing with soil for potting, rooting cuttings, growing bulbs in the house in water and a bowl, in the chicken coop to conserve the droppings, in short it is almost as useful as the soil itself and practically assures success wherever and whenever it is used. Used with discretion a bale will last two or three years in the ordinary home garden, as it contains about 18 bushels when ready to use. A bale is 2x2x3 feet. Price, 1 bale \$5.00, 5 bales at \$4.50, 10 bales at \$4.00 each. If taken, 50c per bale reduction will be allowed.

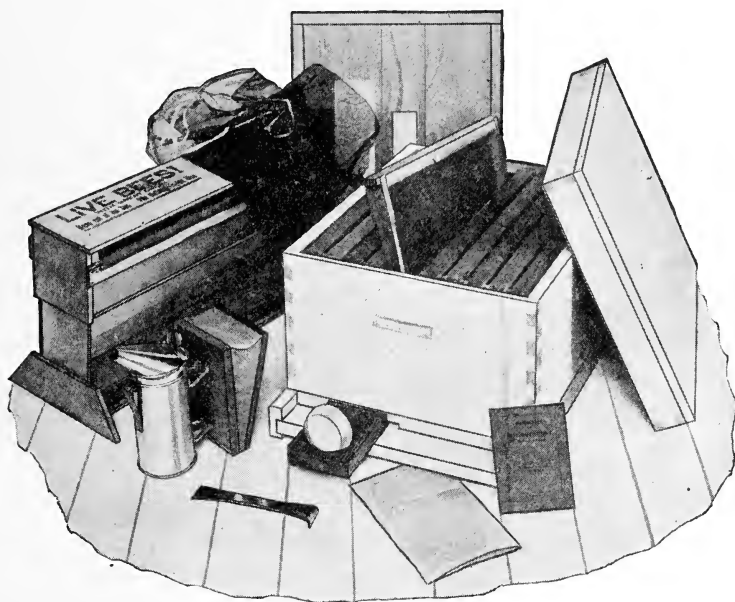
MULCH PAPER

Some of our customers tried this latest method of gardening last year and we made an inspection of the tests that were made at the Wooster Experiment Station last season. The results indicate that when the method becomes known, Mulch Paper will be used by almost every gardener because it will so greatly reduce the labor and increase the crop of almost every vegetable grown. "Gator Hide" comes in two weights and two widths. Grade A, the lighter, coming 300 yards and Grade B, the heavier, 150 yards to the roll and 18 inches or 36 inches in width. When the 36 inch width is used, the plants are set in holes that are made in the paper; when 18 inch width is used space is left between the sides of the sheets for the plants.

Price, either grade, 18 inch rolls, \$3.50; 36 inch, \$7.00 per roll.
 Trial 18-inch roll, 45 feet, \$1.00, by mail \$1.10.



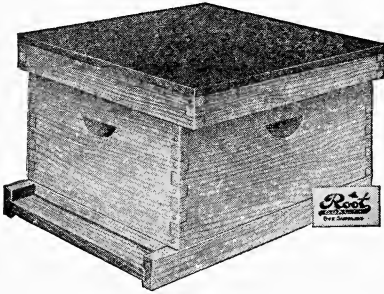
BEGINNER'S READY-TO-USE OUTFIT



With Bees and Queen, All Ready to Go to Work

This outfit comes nailed and painted ready for use, with a 2-pound package of Italian bees and queen. It includes one-story 10-frame hive with full sheets of foundation, Standard smoker, Boardman feeder, bee-veil, hive-tool, "Starting Right with Bees," and explicit printed directions for handling outfit. It affords an easy and sure way to begin beekeeping. The cost is only \$14.25. Shipped by express from factory at Medina, Ohio.

Write us for the A. I. Root Co.'s complete 48 page free catalogue.



STANDARD HIVE

Made of select clear pine with a cypress bottom board, metal covered top, new improved hand holds, inner cover, and equipped with 10 frames with special lock corners. All measurements and spaces absolutely accurate.

1—10-frame hive —nailed and painted (no foundation).....	\$ 5.40
1—10-frame hive —nailed and painted (with Three-ply foundation).....	6.90
5—10-frame hives—not nailed and painted (no foundation).....	14.20

Write for Prices on Supers and Hive Bodies

FOUNDATION

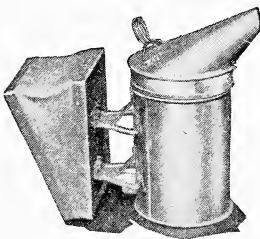
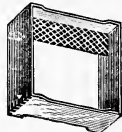
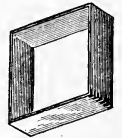
Every frame and section should have a full sheet of foundation. Three-ply Airco foundation is the best foundation for brood and extracting frames. Thin super foundation for sections.

1—10 sheet package of Three-ply foundation.....	\$1.05
1—50 sheet package Three-ply foundation.....	5.00
Thin super foundation for 4¼ sections, 28 sheets 1 lb. 80c, 5 lb.....	3.75
Thin super foundation for 4x5 sections, 32 sheets 1 lb. 80c, 5 lb.....	3.75

SECTIONS

Root Quality Sections are made of the finest and whitest bass-wood obtainable, correctly cut so that they fold with practically no breakage.

	100	250	500
4¼ x 1⅞ sections.....	\$1.30	\$3.15	\$6.25
4¼ x 1½ sections.....	1.20	2.95	5.75
4 x 5 sections.....	1.20	2.95	5.75



Standard
(For the average apiary)

SMOKERS

Standard tin Smoker with anti-spark draft.....	\$1.00
Frame Wiring Outfit with wire for 50 frames and spur wire imbedder .....	.50
Bee Escapes .....	.15
Root Indestructible Bee Veil.....	.90
"Starting Right with Bees", 128 pages, 124 illustrations....	.75

Everything for the Beekeeper

WRITE FOR 1930 BEE SUPPLY CATALOG
ALL GOODS F. O. B. CLEVELAND

Pets and Supplies

OUR BIRDS

Our birds are all imported from the best bird-breeding countries of the old world; and are tested for song before leaving the homes of their breeders; the next test is made immediately upon their arrival in this country. When they arrive at our store they are again tested and classified according to the purity of their note-tones and the quality and length of their songs. At this final testing the price of each individual bird is decided upon. This price is governed by the bird's qualifications as a singer.

It is because of these several tests that we have gained the reputation for having the choicest birds. As we value this reputation, we have fitted out a separate room where customers may choose any bird they prefer, taking as much time as they desire. Most of the best canaries reaching this country are the St. Andreasburg Rollers, the louder Hartz Mountain Warblers, the Blue Ribbon Choppers and the large English or Norwich singers. We also sell Australian Shell Parakeets or Love Birds and in season, female canaries for breeding.

The prices of the birds vary from season to season; but tested singers having the best physical traits are usually priced at from \$8.00 to \$12.00, while some having songs of unusual quality will be priced higher; others, whose songs have not fully developed, and yet may eventually prove to be splendid singers are priced below the minimum quoted above.

BIRD SUPPLIES

The Bird Foods and Remedies offered in the following pages have been made and sold by this company for over fifty years. Competing preparations by the dozens have come and gone during this time, while the sale of our preparations increases each year. Our foods and remedies could not have survived this competition unless they possessed the unusual merit that we claim for them.

Our large stocks of valuable birds are nourished and conditioned with exactly the same preparations that we offer for sale.

WILSON'S MIXTURE OF CANARY AND RAPE SEED

is now, as it has been for over fifty years, a blend of the finest and cleanest Canary and Rape Seed that it is possible to purchase. Food for human epicures is not selected with more care than we give to the selection and mixing of these seeds; and it is a peculiar fact that more than a quarter of a century before an enterprising baking company began to pack food for human consumption in sealed packages, this company was sealing bird-seed in cardboard containers so it would reach the customer as fresh and clean as when mixed.

If your bird refuses the seed you now get for him or if it fails to nourish him sufficiently try this mixture of ours. Put up in pound cartons and priced at **20c**. By mail, postpaid, **27c**.

WILSON'S SONG RESTORER AND CANARY BIRD FOOD

When birds are sick or out of song this will restore both health and melody. Birds in perfect health may have their song improved by regular feedings of this, as directed on the container. Price **20c**. By mail, postpaid, **25c**.

WILSON'S MOCKING BIRD FOOD

The ingredients of this food are selected and mixed, with the object of duplicating as nearly as possible the diet of the birds living in their natural state. It contains vegetable, animal and insect components; and its use will keep the birds in the best of physical condition and consequently in good song.

This food will be relished by Mocking Birds, Thrushes, Troopials, and all soft-billed birds. The price is **50c** per can. By mail, **60c**.

WILSON'S PARROT SEED

contains a mixture of the seeds best suited to the nourishment and sustenance of the parrot. This mixture contains many food elements not supplied by the sunflower seed alone. It is thoroughly re-cleaned, well cured and packed in sealed cartons so it reaches the customer fresh and clean. Carton containing $1\frac{1}{2}$ lbs., **30c**. By mail, **38c**.

WILSON'S CHOICE SUNFLOWER SEED

This seed is selected expressly for Parrot Food and consists entirely of clean, plump, meaty kernels; it makes a nourishing ration for the birds; and next to Wilson's MIXED Parrot Seed is the best seed to feed him. Per lb., 20c. By mail, 27c. Write for special prices in bulk.

WILSON'S BIRD TONIC

A certain cure for loss of song, weakness when moulting, colds, asthma or hard breathing, shedding feathers out of season and other diseases of cage birds. Price 25c. By mail, postpaid, 33c.

WILSON'S PARROT TONIC

A cure for colds, lack of condition, over-feeding, plucking feathers, etc. Price, 40c. By mail, postpaid, 45c.

WILSON'S PURE INSECT POWDER

For Use on Birds

Made from fully developed Pyrethrum flowers; bolted to extreme fineness to insure penetration to the roots of the feathers. Non-poisonous to Birds or Animals but sure death to insects. In 1 oz. bottles, 20c. In Blow Guns, 30c. Either by mail, 5c extra.

SILVER LAKE SAND

is necessary to the welfare of the cage-bird, which having no teeth for chewing its food must depend upon grit taken into the crop to masticate and prepare the food for the digestive processes. The sand is priced at 10c per box of 2 lbs. By mail, postpaid, 18c.

SAND PAPER FOR BIRD CAGES

We prepare this paper ourselves using the best materials to safeguard the health of the bird. A great convenience in the home. Comes twelve sheets in a package in the following sizes: No. 1, 8½x8½ in. No. 2, 8¾x6¾ in. No. 3, 9¾x7¾ in. No. 4, 10¾x7¾ in. No. 5, 11¾x8¾ in. No. 6, Round, 9 in. in Dia. No. 7, Round, 11 in. in Dia. Price, No. 1, 2, 3, or 4, 20c per doz. Nos. 5 or 6, 25c; No. 7, 30c.

Outside Bird Bath. Celluloid and Colored Enamel; attaches to outside of cage at the door. Does away with all spattering of cage and surroundings. Size 4x4½ inches. Price \$1.00.

Bird Cups. Various styles, flint glass or porcelain, to fit cages of different makes. Each 20c and up.

Bird Cages. Various sizes, different makes, brass and Duco, in different colors, and stands to match.

Parts for Bird Cages. Perches, Springs, Pans, etc.

Breeding Cages and Supplies. Nests, Hair, etc.

Cuttle Bone. Plain, per pound, \$1.00; dressed, \$2.00. Each, 5c; with wooden holder, each, 10c.

Food Cups. For feeding Song Food and Dainties, each, 10c.

Sheppard's Song Restorer.

Haller's Dutch Song Food.

Haller's Bird Remedies.

Sergeant's Dog Remedies.

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Champion Dog Foods.

Burnett's Song Food.

Magic Song Food.

Bird Manna. Bird Pies.

Glover's Dog Remedies.

Spratt's Dog Remedies and Foods.

Bennett's Milk Bone for Dogs.

Fancy Goldfish

Fish Food of several kinds

Cabomba or Sea Weed

Fish Globes, one to five gallon sizes

Aquariums, three to fifteen gallon sizes

Aquarium Cement

Quantity of Seeds Usually Sown to the Acre

Beans, Dwarf, in drills or rows..	1	to	1½ bush.
" Pole, in hills.....	8	"	12 qts.
Beets, in drills.....	4	"	5 lbs.
Barley, broadcast.....	2	"	3 bush.
Buckwheat.....	¾	"	1 "
Broom Corn, in hills.....	6	"	8 qts.
Carrots, in drills.....	3	"	3½ lbs.
Cucumbers, in hills.....	1	"	2 lbs.
Corn, in hills.....	6	"	8 qts.
" in drills.....	2	"	3 bush.
Clover, Red, alone.....	15	"	20 lbs.
" White, alone.....	8	"	10 "
" Alsike, alone.....	8	"	10 "
" Lucerne.....	10	"	20 "
Flax, broadcast.....	1	"	2 bush.
Grass, Timothy or Herds, alone..	1½	"	¾ "
" Red Top, alone.....	1½	"	2 "
" Lawn, alone.....	5	"	6 "
" Orchard, alone.....	2	"	3 "
" Kentucky Blue, alone.....	2	"	3 "
" English Rye Grass, alone.....	1½	"	2 "
Hungarian, alone.....	¾	"	1 "

Millet, alone.....	¾	to	1 bush.
Mustard, broadcast.....	12	"	16 lbs.
Oats, broadcast.....	2	"	3 bush.
Onions, in drills.....	4	"	6 lbs.
Parsnips, in drills.....	4	"	6 "
Peas, Early, in drills.....	1¼	"	1½ bush.
" Marrow, in drills.....	1¼	"	1½ "
" Broadcast.....	2½	"	3 "
Potatoes, cut tubers, in drills....	8	"	10 "
Radish, in drills.....	8	"	10 lbs.
Rye, broadcast.....	1½	"	1¼ bush.
Salsify, in drills.....	8	"	9 lbs.
Spinach, in drills.....	8	"	10 "
Turnip, in drills.....	1	"	1½ "
Wheat, broadcast.....	1¾	"	2 bush.

General Grass Seeding for Mowing Land

Red Clover.....	{ together }	.....	.6 lbs. Red Clover
Timothy.....	{ for }	.....	¼ bu. Timothy
Alsike Clover.....	{ one acre }	.....	3 lbs. Alsike Clover

Quantity of Seed Required for a Given Number of Plants, or Number of Hills, or Length of Drill

Asparagus.....	1 oz. to	60 feet of drill
Beet.....	1 oz. "	50 "
Beans, Dwarf.....	1 qt. "	100 "
Beans, Pole.....	1 qt. "	100 hills.
Carrot.....	1 oz. "	150 feet of drill
Cabbage.....	1 oz. "	3,000 plants
Cauliflower.....	1 oz. "	3,000 "
Celery.....	1 oz. "	4,000 "
Cucumber.....	1 oz. "	50 hills
Corn.....	1 qt. "	400 "
Dandelion.....	1 oz. "	150 feet of drill
Endive.....	1 oz. "	150 "
Egg Plant.....	1 oz. "	2,000 plants
Lettuce.....	1 oz. "	4,000 "
Leek.....	1 oz. "	100 feet of drill
Melon, Water.....	1 oz. "	30 hills

Melon, Musk.....	1 oz. to	60 hills
Okra.....	1 oz. "	40 feet of drill
Onions.....	1 oz. "	100 "
Onions, Setts, small.....	1 qt. "	40 "
Parsley.....	1 oz. "	150 "
Parsnip.....	1 oz. "	200 "
Peas.....	1 qt. "	100 "
Pepper.....	1 oz. "	2,000 plants
Pumpkin.....	1 oz. "	40 hills
Radish.....	1 oz. "	100 feet of drill
Salsify.....	1 oz. "	70 "
Spinach.....	1 oz. "	50 "
Squash, Early.....	1 oz. "	50 hills
Squash, Marrow.....	1 oz. "	10 "
Tomato.....	1 oz. "	3,000 plants
Turnip.....	1 oz. "	100 feet of drill

Number of Plants, Trees, Vines, Etc., Required to Set an Acre

Distance.	Number.
1 ft. by 1 ft.....	43,560
1½ " " 1½ ".....	19,360
2 " " 2 ".....	21,780
2 " " 2 ".....	10,890
2½ " " 2½ ".....	6,970
3 " " 3 ".....	14,520
3 " " 3 ".....	7,260
3 " " 3 ".....	4,940
4 " " 4 ".....	2,722
5 " " 5 ".....	1,742

Distance.	Number.
6 ft. by 6 ft.....	1,210
8 " " 8 ".....	680
10 " " 10 ".....	434
12 " " 12 ".....	302
15 " " 15 ".....	194
18 " " 18 ".....	134
20 " " 20 ".....	103
25 " " 25 ".....	70
30 " " 30 ".....	40
40 " " 40 ".....	27

Weight of Various Articles in the State of Ohio

Apples.....	per bu. 48 lbs.
Apples, dried.....	" 22 "
Barley.....	" 48 "
Beans.....	" 60 "
Buckwheat.....	" 50 "
Broom Corn.....	" 46 "
Blue Grass, Kentucky.....	" 14 "
" English.....	" 24 "
Bran.....	" 20 "
Canary Seed.....	" 60 "
Clover Seed.....	" 60 "
Corn, shelled.....	" 56 "
Corn, on ear.....	" 68 "
Corn Meal.....	" 50 "
Charcoal.....	" 22 "
Coal, Mineral.....	" 80 "
Coal, Cannel.....	" 70 "
Coke.....	" 40 "
Cow Peas.....	" 60 "
Cranberries.....	" 40 "
Dried Peaches.....	" 32 "
Flax Seed.....	" 56 "
Hemp Seed.....	" 44 "
Hungarian Grass Seed.....	" 48 "
Irish Potatoes, heaping measure.....	" 60 "
Millet.....	" 50 "
Malt.....	" 34 "
Oats.....	" 32 "
Osage Orange.....	" 33 "

Orchard Grass.....	per bu. 14 lbs.
Onions.....	" 50 "
Peaches.....	" 48 "
Peas.....	" 60 "
Plastering Hair.....	" 8 "
Popcorn.....	" 40 "
Rape.....	" 50 "
Rye.....	" 56 "
Red Top Seed.....	" 14 "
Salt, coarse.....	" 50 "
Salt, Michigan.....	" 56 "
Sorghum.....	" 50 "
Sweet Potatoes.....	" 50 "
Timothy Seed.....	" 45 "
Tomatoes.....	" 56 "
Turnips.....	" 60 "
Wheat.....	" 50 "
Flour, per bbl, net.....	" 196 "
Salt, per bbl.....	" 280 "
Lime, per bushel.....	" 70 "
Hay, well settled.....	per cubic foot, 4½ "
Corn, on cob, in bin.....	" 22 "
Corn, shelled, in bin.....	" 45 "
Wheat, in bin.....	" 48 "
Oats, in bin.....	" 25½ "
Potatoes, in bin.....	" 38½ "
Sand, dry, in bin.....	" 95 "
Clay, compact.....	" 135 "



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